10/511,534 Page 1

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(FILE 'HOME' ENTERED AT 12:08:13 ON 23 FEB 2006)

FILE 'REGISTRY' ENTERED AT 12:08:21 ON 23 FEB 2006

L1 STRUCTURE UPLOADED

L2 10 S L1

L3 165 S L1 FULL

FILE 'CAPLUS' ENTERED AT 12:09:11 ON 23 FEB 2006

L4 14 S L3

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L1 STR

Structure attributes must be viewed using STN Express query preparation.

L3 165 SEA FILE=REGISTRY SSS FUL L1

L4 14 SEA FILE=CAPLUS ABB=ON PLU=ON L3

=> d 1-14 bib abs hitstr

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ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN 2005:1042344 CAPLUS 143:348671 Fibre-reactive dyes, their preparation and their use Tzikas, Athanassios: Roentgen, Georg: Christnacher, Hubert Jean Luc Ciba Specialty Chemicals Holding Inc., Switz. PCT Int. Appl., 59 pp. CODEN: PIXXD2 Patent
   L4
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PATENT NO.
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                                                                                                                        DATE
                                                                                                                                                                           APPLICATION NO.
                                                                                                                                                                                                                                                                    DATE
                                                  090484 Al 20050929 W0 2005-EP51044 20050309
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HJ, ID, IL, IN, IS, JP, KE, KG, KF, KR, KZ, LK, LK, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, CM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
                      WO 2005090484
   ΡI
AZ, BY, KG, KZ, MD, RU, TJ, TH, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG
PRAI EP 2004-101144

A 20040319
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The invention relates to reactive dyes of formula (I), wherein Ql and Q2 are each independently of the other hydrogen or unsubstituted or substituted C1-C4 alkyl, Dl is the radical of a diazo component, which is

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) (sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9Cl) (CA INDEX NAME)

PAGE 1-B

— cн2- сн2-оsо3н

865339-66-6 CAPLUS
2-Maphthalenesulfonic acid, 7-amino-3-[{5-[{4-chloro-6-{{2-sulfo-4-[[4-[12-(sulfooxy):ethy]|sulfonyl]phenyl]azo]phenyl]azo]-4-hydroxy-8-[[4-[2-(sulfooxy):ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) itself a mono- or dis-azo dye or contains such a dye, D2 has the same definition as D1 or is a radical of formula (II), wherein (03)0-3 denotes from 0 to 3 identical or different substituents selected from the group halogen, C1-C4 alkyl, C1-C4 alkyn, carboxy and sulfo and Z1 is a radical of formula -S02-Y (3a), -NH-CO-(CH2)m-S02-Y (3b), -CONH-(CH2)n-S02-Y (3c),

-NH-CO-CH(Hal)-CH2-Hal (3d) or -NH-CO-C(Hal):CH2 (3e), Y is vinyl or a -CH2-CH2-U radical and U is a group that is removable under alk. conditions, m and n are each independently of the other the no. 2, 3 or

and Hal is halogen. The dye mixts, are suitable for dyeing cellulosic or amide-group-contg, fiber materials (e.g., cotton fabrics) with good fastness properties.

865338-93-69 865359-65-89 865359-66-69 865339-67-79 8653359-67-79 865359-73-73-79 865359-73-79 865359-73-79 865359-73-79 865359-73-79 865359-

86535-82-6p
RL: IMF (Industrial manufacture): TEM (Technical or engineered material use): PREP (Preparation); USES (Uses)
(bluish violet dye: production of fiber-reactive diazo dyes for dyeing cellulosic or amido-containing fiber materials)
865388-93-6 CAPLUS
2-Maphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[(2-sulfoethyl)amino]-1,3,5-triezin-2-yl)amino]-2-sulfo-4-[[4-[[2-(sulfoexy)ethyl]sulfonyl]phenyl]azo]ehnyl]azo]+hydroxy-8-[[2-sulfo-4-[[2-(sulfoexy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

865359-65-5 CAPLUS
2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-{[2-sulfo-4-[[4-[[2-(sulfo-xy)]ethyl]sulfonyl]phenyl]azo]phenyl]azo]-4-hydroxy-8-[[3-[[2-

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

865359-67-7 CAPLUS
2-Maphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-2-sulfo-4-[[4-[(2-sulfooxy)ethyl]sulfonyl]phenyl]azo]-6-[[4-[(2,3-dibromo-1-oxopropyl)amino]-2-sulfophenyl]azo]-4-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A BrCH2~ HOS íi CH2-CH2-Hah

PAGE 1-B

-- oso₃H

863359-68-8 CAPLUS
2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[[2-sulfocthy]]amino-]-1,3,5-triazin-2-yl]amino]-2-sulfo-4-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]phenyl]azo]-4-hydroxy-8-[[4-[[[2-[[2-(sulfooxy)ethyl]sulfonyl]ethyl]amino]carbonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

865359-69-9 CAPLUS
2-Maphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[[2-sulfo-4+[[4-[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-4-hydroxy-8-[[2-sulfo-4-[[[2-(z-(z-[2-(sulfooxy)ethyl]sulfonyl]ethyl]azo]-4-hydroxy-8-[[2-sulfo-4-([(2-(Z-NDEX-NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

865359-70-2 CAPLUS
2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[[2-sulfo-hyl)amino-]-1,3,5-triazin-2-yl]amino]-2-sulfo-4-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]phenyl]azo]-4-hydroxy-8-[[3-[[[2-(sulfooxy)ethyl]sulfonyl]ethyl]amino]carbonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

-- CH2-- CH2-- SO3H

(sulfooxy)ethyl]sulfonyl]phenyl]azo]phenyl]azo]-4-hydroxy-8-[[2-methoxy-5-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

865359-72-4 CAPLUS
2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[(2-aulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-2-sulfo-4-[[4-[[2-

(sulfooxy)ethyl]sulfonyl]phenyl]azo]phenyl]azo]-4-hydroxy-8-[[2-methoxy-5methyl-4-{[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

865359-73-5 CAPLUS
2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[[2-sulfoethyl]amino]-1;3,5-triazin-2-yl]amino]-2-sulfo-4-[[4-[[2-(sulfooxy]ethyl]sulfonyl]phenyl]azo]-8-[[2,5-dimethoxy-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-4-hydroxy- (9CI) (CA INDEX NAME)

865359-74-6 CAPLUS
1-Naphthalenesulfonic acid, 2-[{2-amino-6-[[5-[[4-chloro-6-[(2-sulfoethyl)amino]-1,3,5-trlazin-2-yl]amino]-2-sulfo-4-[[4-[[2-(sulfooxy)ethyl]sulfonyl]henyl]azo]phenyl]azo]-5-hydroxy-7-sulfo-1-naphthalenyl]azo]-6-{[2-(sulfooxy)ethyl]sulfonyl]- (9CI) (CA INDEX NAME)

865359-75-7 CAPLUS
1-Naphthalenesulfonic acid, 2-[[2-amino-6-[[4-chloro-6-[42-sulfoethyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfo-4-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-5-hydroxy-7-sulfo-1-naphthalenyl]azo]-5-[[2-(sulfooxy)ethyl]sulfonyl]- (9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) 863359-78-0 CAPLUS 2-Maphthalenesulfonic acid, 7-amino-3-[{5-[{4-chloro-6-[{2-sulfoethyl]amino]-1.3,5-criazin-2-yl]amino]-2-sulfo-4-[{4-[{2-sulfoexy|ethyl]sulfonyl]phenyl]azo]-henyl]azo]-4-hydroxy-8-[{6-[{2-sulfoexy|ethyl]sulfonyl]-2-naphthalenyl]azo]-(9CI) (CA INDEX NAME)

PAGE 1-B

-CH2-SO3H

865359-79-1 CAPLUS
2-Maphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[(2-sulfo-4+]lamino]-1,3,5-triazin-2-yl]amino]-2-sulfo-4-[[4-[[2-[sulfooxy]ethyl]sulfonyl]phenyl]azo]phenyl[azo]-4-hydroxy-6-[[6-[(2-[sulfooxy]ethyl]sulfonyl]-1-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) (sulfooxy)ethyl]sulfonyl]phenyl]azo]phenyl]azo]-4-hydroxy-8-[[8-[(2-(sulfooxy)ethyl]sulfonyl]-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

865359-77-9 CAPLUS
2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[(2-sulfoethyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfo-4-[[4-[[2-(sulfooxy)ethyl]sulfonyl]penyl]azo]phenyl]azo]-4-hydroxy-8-[[6-sulfo-8-[(2-(sulfooxy)ethyl]sulfonyl]-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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865359-80-4 CAPLUS
2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[(2-sulfoethyl)amino]-1,3,5-trlazin-2-yl]amino]-2-sulfo-4-[[4-[[2-(sulfoexy)ethyl)autlonyl]henyl]azo]-ehyl]azoly-6-[[5-[(2,3-dibromo-1-cxopropyl)amino]-2-sulfophenyl]azo]-4-hydroxy- (9CI) (CA INDEX NAME)

RN 865359-81-5 CAPLUS
CN 2-Naphthalenesulfonic acid,
7-amino-8-[[4-[[4-[(2-chloroethyl]sulfonyl]-1-oxohutyl]amino]-2-sulfophenyl]szo]-3-[[5-[[4-chloro-6-[(2-sulfoethyl]amino]-1,3,5-trizzin-2-yl]amino]-2-sulfo-4-[[4-[[2-(sulfooxyl]ethyl]sulfonyl]phenyl]szo]phenyl]szo]-4-hydroxy- (9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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-oso₃H

2-yl|amino]-2-sulfo-4-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]phenyl]a zo]-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-(9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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— sозн :н2-сн2-оsо3н

865359-82-6 CAPLUS
2-Naphthalenesulfonic acid,
mino-8-[[5-[[4-[[2-chloroethyl]sulfonyl]-1oxobutyl]amino]-2-sulfophenyl]szo]-3-[[5-[[4-chloro-6-[[2sulfoethyl]amino]-1,3,5-triszin-2-yl]amino]-2-sulfo-4-[[4-[[2(sulfooxylethyl]sulfonyl]phenyl]szo]phenyl]szo]-4-hydroxy- (9CI) (CA
INDEX NAME)

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ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 865359-07-5 CAPLUS
CN 2-Naphthaleneaulfonic acid,
7-amino-3-[(5-[(4-[(3-{(aminocarbonyl)amino]-4[[2-sulfo-4-(4-aulfophenyl)azo]phenyl]amino]-6-chloro-1,3,5triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-8-[[2-sulfo-4-[[2(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

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865359-08-6 CAPLUS
1,3,6-Naphthalenetricarboxylic acid, 7-[[2-[(aminocarbonyl)amino]-4-[[4-[3-[[6-amino-1-hydroxy-3-sulfo-5-[[2-sulfo-4-[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]phenyl]azo]- (9CI) (CA INDEX NAME)

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ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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RN 865359-10-0 CAPLUS
CN 1,5-Naphthalenedisulfonic acid,
3-[[2-[(aminocarbonyl)amino]-4-[[4-[[3-[[6-

amino-1-hydroxy-3-sulfo-5-[(2-sulfo-4-[(2-(sulfooxy)ethyl)sulfonyl)phenyl]
azo]-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2yl]amino]phenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) PAGE 1-B

RN 865359-09-7 CAPLUS
CN 1,3,5-Naphthalenetrisulfonic acid,
7-[[2-[(aminocarbonyl]amino]-4-[[4-[[3[[6-amino-1-hydroxy-3-sulfo-5-[[2-sulfo-4-[[2[sulfooxy]ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]phenyl]azo]- (9CI)
(CA INDEX NAME)

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L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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865359-11-1 CAPLUS
2-Maphthalenesulfonic acid, 7-amino-3-[{5-[{4-[[3-[{5-(aminocarbonyl}-1-ethyl-1,6-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridinyl]azo]-4-

sulfophenyl]amino]-6-chloro-1, 3, 5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4hydroxy-8-[{2-sulfo-4-[{2-(sulfooxy)ethyl]sulfonyl)phenyl]azo]- (9CI) INDEX NAME)

RN 865359-12-2 CAPLUS
CN 3-Pyridinemethanesulfonic acid,
5-[[5-[[4-[[3-[[6-amino-1-hydroxy-3-sulfo-

5-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-

4-sulfophenyl|amino]-6-chloro-1,3,5-triaxin-2-yl|amino]-2-sulfophenyl|azo]1-ethyl-1,2-dihydro-6-hydroxy-4-methyl-2-oxo- (9CI) (CA INDEX NAME)

RN 865359-13-3 CAPLUS
CN 2,7-Maphthalenedisulfonic acid,
3-amino-4-[4-[(4-[(4-[(3-[(6-amino-1-hydroxy3-sulfo-5-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-

naphthalenyl]azo]-4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-5-hydroxy- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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RN 865359-15-5 CAPLUS
CN 1,3,6-Naphthalenetrisulfonic acid,
7-[{2-[(aminocarbonyl) amino}-4-[[4-[[5[[6-amino-1-hydroxy-3-sulfo-5-[[2-sulfo-4-[[2[sulfooxylethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-2,4disulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]phenyl]azo]- (9CI)
(CA INDEX NAME)

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(Continued) ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

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- cн2- сн2- оsо3н

____ NH2

RN 865359-14-4 CAPLUS
CN 1,3-Benzenediaulfonic acid,
4-[[6-[[3-[(aminoc=1cbony]) amino]-4-[[2-sulfo-4[(4-sulfophenyl) aco]phenyl]aco]phenyl]amino]-4-chloro-1,3,5-triazin-2yl]amino]-6-[[6-amino-1-hydroxy-3-sulfo-5-[[2-sulfo-4-[[2[sulfooxy]ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]- (9CI) (CA
INDEX

INDEX NAME)

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L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-B

RN 865359-16-6 CAPLUS
CN 1,3,5-Naphthalenetrisulfonic acid,
7-{{2-{(aminocarbonyl) amino}-4-{[4-{[5-{(amino-1-hydroxy-3-sulfo-5-{[2-sulfo-4-{{2-(sulfo-4)-2-capthhalenyl) azo}-2,4-disulfophenyl] amino}-6-chloro-1,3,5-triazin-2-yl]amino]phenyl]azo]- (9CI)
(CA INDEX NAME)

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RN 865359-17-7 CAPLUS
CN 1,5-Naphthalenedisulfonic acid,
3-[[2-[(aminocarbonyl)amino]-4-[[4-[[5-[[6-

amino-1-hydroxy-3-sulfo-5-[{2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]

azo]-2-naphthalenyl]azo]-2,4-disulfophenyl]amino]-6-chloro-1,3,5-triazin-2yl]amino]phenyl]azo]- (9CI) (CA INDEX NAME)

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ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

[{2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-6-[[4-chloro-6-[[3-[(1-ethyl-1,6-dihydro-2-hydroxy-4-methyl-6-oxo-5-(sulfomethyl)-3-pyridinyl]azo]-4-sulfophenyl]amino]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

RN 865359-20-2 CAPLUS
CN 2,7-Maphthalenedisulfonic acid,
3-amino-4-[{4-[{4-[{5-[{6-amino-1-hydroxy-3-sulfony1]pheny1}azo]-2-naphthaleny1]azo]-2,4-disulfopheny1}amino]-6-chloro-1,3,5-triazin-2-y1}amino]-2-sulfopheny1]azo]-5-hydroxy- (9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

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865359-18-8 CAPLUS
1,3-Benzenedisulfonic acid, 4-[[4-[[3-[[5-(aminocarbonyl)-1-ethyl-1,6-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridinyl]azo]-4-sulfophenyl]amino]-6-

chloro-1,3,5-triazin-2-yl]amino]-6-[[6-amino-1-hydroxy-3-sulfo-5-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]- (9CI) INDEX NAME)

865359-19-9 CAPLUS 1,3-Benzenedisulfonic acid, 4-[[6-amino-1-hydroxy-3-sulfo-5-[[2-sulfo-4-

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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- cн₂- оsо₃н

865359-21-3 CAPLUS 2,7-Naphthalenedisulfonic acid, 5-[[4-[[3-[[6-amino-1-hydroxy-3-sulfo-5-

{{2-sulfo-4-{{2-(sulfooxy)ethyl}sulfonyl}phenyl}azo}-2-naphthalenyl]azo}-4-sulfophenyl]amino}-6-chloro-1,3,5-triazin-2-yl]amino}-4-hydroxy-3-{{2-sulfophenyl}azo}- {9CI} (CA INDEX NAME)

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— сн₂- оsо₃н

865359-22-4 CAPLUS 2,7-Naphthalenedisulfonic acid, 5-[[4-[[3-[[6-amino-1-hydroxy-3-sulfo-5-

[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-3-{(2,5disulfophenyl)azo]-4-hydroxy- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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--- cн₂-- сн₂-- оsо₃н

865359-24-6 CAPLUS 2,7-Naphthalenedisulfonic acid, 5-[[4-[[3-[[6-amino-1-hydroxy-3-sulfo-5-

{[2-sulfo-4-[{2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[{4-methoxy-2,5-disulfophenyl}azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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865359-23-5 CAPLUS 2,7-Naphthalenedisulfonic acid, 5-[[4-{[3-[[6-amino-1-hydroxy-3-sulfo-5-

[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino}-4-hydroxy-3-[[4-methoxy-2-sulfophenyl]azo]- [9CI] (CA INDEX NAME)

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ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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865359-25-7 CAPLUS 2,7-Naphthalenedisulfonic acid, 5-[[4-[[3-[[6-amino-1-hydroxy-3-sulfo-5-

[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[{4-methyl-2-sulfophenyl}azo]- (9CI) (CA INDEX NAME)

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L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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- cн2-сн2-оsо3н

865359-26-8 CAPLUS
2,7-Naphthalenedisulfonic acid, 3-[[4-(acetylamino)-2-sulfophenyl]azo]-5[[4-([3-([6-amino-1-hydroxy-3-sulfo-5-[[2-sulfo-4-[[2[sulfooxy]ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy- (9CI)
(CA INDEX NAME)

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-- cH2- CH2- оsо3H

865359-27-9 CAPLUS
2,7-Naphthalenedisulfonic acid, 5-[[4-[[3-[[6-amino-1-hydroxy-3-sulfo-5-

[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[(1-sulfo-2-naphthalenyl)azo]- (9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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RN 865359-28-0 CAPLUS
CN 1,5-Nephthalenedisulfonic acid,
2-[(8-[(3-[(6-amino-1-hydroxy-3-sulfo-

5-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,6-disulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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PAGE 2-A

865359-29-1 CAPLUS 2,7-Naphthalenedisulfonic acid, 5-{[4-[[3-[[6-amino-1-hydroxy-3-sulfo-5-

[{2-sulfo-4-{{2-(sulfooxy)ethyl|sulfonyl|phenyl|azo}-2-naphthalenyl|azo}-4-sulfophenyl|amino|-6-chloro-1,3,5-triazin-2-yl|amino|-4-hydroxy-3-[{1-sulfo-6-{{2-(sulfooxy)ethyl|sulfonyl}-2-naphthalenyl|azo}- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

PAGE 1-A

RN 865359-30-4 CAPLUS
CN 2,7-Naphthalenedisulfonic acid, 5-[[4-([3-[[6-amino-1-hydroxy-3-sulfo-5[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[[6-[[2(sulfooxy)ethyl]sulfonyl]-2-naphthalenyl]azo]- [9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

RN 865359-32-6 CAPLUS
CN 2.7-Maphthalenedisulfonic acid, 5-[{4-[{3-[[6-amino-1-hydroxy-3-sulfo-5-[[2-sulfo-4-[(2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[{8-[(2-(sulfooxy)ethyl]sulfonyl]-2-naphthalenyl]azo]-(9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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PAGE 2-A
HO3SO-CH2-CH2-S
NO3S
NO3S
NO3S

RN 865359-31-5 CAPLUS
CN 2,7-Naphthalenedisulfonic acid, 5-[[4-[[3-[[6-amino-l-hydroxy-3-sulfo-5-

[[2-sulfo-4-{[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-{[1-sulfo-5-{[2-(sulfooxy)ethyl]sulfonyl]-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

O=S-CH2-CH2-OSO3H

HO3S

HO3S

HOM
H2N

H003S

RN 865359-33-7 CAPLUS CN 2,7-Naphthalenedisulfonic acid, 5-[[4-[[3-[[6-amino-1-hydroxy-3-sulfo-5-

[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]szo]-2-naphthalenyl]szo]-4aulfophenyl]amino]-6-chloro-1, 3, 5-triazin-2-yl]amino]-4-hydroxy-3-[[6sulfo-8-[[2-(sulfooxy)ethyl]sulfonyl]-2-naphthalenyl]szo]- (9CI) (CA
INDEX NAME)

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865359-34-8 CAPLUS 2,7-Naphthalenedisulfonic acid, 5-{[4-{[3-{[6-amino-1-hydroxy-3-sulfo-5-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[[4-{[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-B

865359-36-0 CAPLUS 2,7-Naphthalenedisulfonic acid, 5-[[4-[[3-[[6-amino-1-hydroxy-3-sulfo-5-

[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-chloro-1, 3, 5-triazin-2-yl]amino]-4-hydroxy-3-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

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865359-35-9 CAPLUS
2,7-Naphthalenedisulfonic acid, 5-[[4-[[3-[[6-amino-1-hydroxy-3-sulfo-5-[[2-sulfo-4-[[2-(sulfooxy)ethy1]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[{3-{{2-(sulfooxy)ethyl]sulfonyl]phenyl]azo}- (9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-B

[{2-sulfo-4-[{2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphhalenyl]azo]-4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[{2-methoxy-5-[(2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

 $865359-38-2 \quad \text{CAPLUS} \\ 2,7-\text{Naphthalenedisulfonic acid, } 5-[\{4-\{\{3-\{\{6-amino-1-hydroxy-3-sulfo-5-amino-1-hydroxy-3-amino-1-hydroxy-3-amino-1-hydroxy-3-amino-1-hydroxy-3-amino-1-hydroxy-3-amino-1-hydroxy-3-amino-1-hydrox$

[[2-sulfo-4-[{2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[[2-methoxy-5-methyl-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-B

865359-40-6 CAPLUS 2,7-Naphthalenedisulfonic acid, 5-[[4-[(3-[[6-amino-1-hydroxy-3-sulfo-5-

[[2-sulfo-4-[{2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4-

sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-3-[[5-[{2,3-dibromo-l-oxopropyl}amino]-2-sulfophenyl]aro]-4-hydroxy- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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865359-39-3 CAPLUS
2,7-Naphthalenedisulfonic acid, 5-{[4-[[3-[[6-amino-1-hydroxy-3-sulfo-5-

[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4-

sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[{3-{[[2[[2-(sulfooxy)ethyl]sulfonyl]ethyl]amino]carbonyl}phenyl]azo]- (9CI) (CA
INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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 $865359-41-7 \quad \text{CAPLUS} \\ 2,7-\text{Naphthalenedisulfonic acid, } 5-[[4-{[3-[\{6-amino-1-hydroxy-3-sulfo-5-4]\}]}] \\ + (3-[4-amino-1-hydroxy-3-sulfo-5-4]) \\ + (3-[4-ami$

[{2-sulfo-4-[{2-{sulfooxy}ethyl]sulfonyl}phenyl]azo]-2-naphthalenyl]azo]-4-

sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-3-[[4-[(2,3-dibromo-1-oxopropyl)amino]-2-sulfophenyl]azo]-4-hydroxy- (9CI) (CA INDEX NAME)

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865359-42-8 CAPLUS 2,7-Naphthalenedisulfonic acid, 5-[[4-[[3-[[6-amino-1-hydroxy-3-sulfo-5-

{[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-chloro-1,3,5-triazln-2-yl]amino]-3-[[5-[[4-[[2-chloro-thyl]sulfonyl]-1-oxobutyl]amino]-2-sulfophenyl]azo]-4-hydroxy-(9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-B

865359-44-0 CAPLUS 1,4-Benzenedisulfonic acid, 2-[[6-[[4-[[3-[[6-amino-1-hydroxy-3-sulfo-5-

[{2-sulfo-4-[{2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4-

sulfophenyl]amino}-6-chloro-1,3,5-triazin-2-yl]amino}-1-hydroxy-3-sulfo-2naphthalenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-B

865359-43-9 CAPLUS
2-Naphthalenesulfonic acid,
ino-3-[[5-[4-chloro-6-[[5-hydroxy-7-sulfo6-[(2-sulfophenyl)azo]-2-naphthalenyl}amino]-1,3,5-triazin-2-yl]amino]-2-

sulfophenyl]azo]-4-hydroxy-8-{{2-sulfo-4-[{2-(sulfooxy)ethyl]sulfonyl}phen yl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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865359-45-1 CAPIUS
2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[[5-hydroxy-6-[(4-methoxy-2-sulfophenyl]azo]-7-aulfo-2-naphthalenyl]amino]-1,3,5-triazin-2-yllamino]-2-sulfophenyl]azo]-4-hydroxy-8-[[2-sulfo-4-[[2-sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

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RN 865359-46-2 CAPLUS
CN 1,4-Benzenedisulfonic acid, 2-[[6-{[4-[[3-[[6-amino-1-hydroxy-3-sulfo-5([2-sulfo-4-([2-(sulfooxy)ethyl]sulfonyl]phenyl]azo}-2-naphthalenyl]azo)-4sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-1-hydroxy-3-sulfo-2-

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) (sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-B

RN 865359-48-4 CAPLUS
CN 2-Naphthalenesulfonic acid, 3-[[5-[[4-[[6-[[4-(acetylamino)-2-sulfopheny1]azo]-5-hydroxy-7-sulfo-2-naphthaleny1]amino]-6-chloro-1,3,5-

triazin-2-yl]amino]-2-sulfophenyl]azo]-7-amino-4-hydroxy-8-[[2-sulfo-4-[{2-sulfo-xy}]eholy]aulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) naphthalenyl]azo]-5-methoxy- (9CI) (CA INDEX NAME)

DACE 1-D

RN 865359-47-3 CAPLUS
CN 2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[[5-hydroxy-6-[(4-methyl-2-sulfophenyl]azo]-7-sulfo-2-naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-8-[[2-sulfo-4-[[2-

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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RN 865359-49-5 CAPLUS
CN 1-Naphthalenesulfonic acid, 2-[[6-[[4-[[3-[[6-amino-1-hydroxy-3-sulfo-5[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4sulfophenyl]amino]-6-chloro-1, 3, 5-triazin-2-yl]amino]-1-hydroxy-3-sulfo-2naphthalenyl]azo]- [9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued) PAGE 1-A

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RN 865359-50-8 CAPLUS
CN 1,5-Naphthalenedisulfonic acid,
2-[[6-[[4-[[3-[[6-amino-1-hydroxy-3-aulfo-

5-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-

4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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RN 865359-52-0 CAPLUS
CN 2-Naphthalenesulfonic acid,
7-amino-3-[5-[4-chloro-6-{[5-hydroxy-7-sulfo-6-[[6-{[2-(sulfooxy)ethyl]sulfonyl}-2-naphthalenyl]azo}-2-

naphthalenyl]amino]-1,3,5-triazin-2-yl}amino]-2-sulfophenyl]azo]-4-hydroxy-8-[(2-sulfo-4-[(2-(sulfooxy)ethyl]sulfonyl)phenyl]azo]- (9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

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865359-51-9 CAPLUS 1-Naphthalenesulfonic acid, 2-[[6-[[4-[[3-{[6-amino-1-hydroxy-3-aulfo-5-

[{2-sulfo-4-[{2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl)azo}-4-

sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]-6-[{2-(sulfooxy|ethyl]sulfonyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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865359-53-1 CAPLUS 1-Naphthalenesulfonic acid, 2-[[6-[[4-[[3-[[6-amino-1-hydroxy-3-sulfo-5-

[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]azo]-4-

sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]-5-[[2-(sulfooxy]ethyl]sulfonyl]- (9CI) (CA INDEX NAME)

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RN 865359-54-2 CAPLUS
CN 2-Maphthalenesulfonic acid,
7-amino-3-[5-[(4-ch)cro-6-[(5-hydroxy-7-sulfo-6-[[8-[[2-(sulfooxy)ethyl]sulfonyl]-2-naphthalenyl]azo]-2-

naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-8-[(2-sulfo-4-[{2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-(9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-B

RN 865359-56-4 CAPLUS CN 2-Naphthalenesulfonic acid, 7-amino-3-[[5-{[4-chloro-6-[[5-hydroxy-7-sulfo-

6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]amino]-1,3,5triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-8-[[2-sulfo-4-[[2(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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RN 865359-55-3 CAPLUS
CN 2-Naphthalenesulfonic acid,
7-amino-3-([5-[4-chloro-6-[[5-hydroxy-7-sulfo6-[[6-sulfo-8-[[2-(sulfooxy)ethyl]sulfonyl]-2-naphthalenyl]azo]-2-

naphthalenyl)amino]-1,3,5-triazin-2-yl}amino]-2-sulfophenyl]azo]-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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RN 865359-57-5 CAPLUS CN 2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[[5-hydroxy-7-sulfo-

6-[[3-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]amino]-1,3,5triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-8-[[2-sulfo-4-[[2(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

865359-58-6 CAPLUS 2-Maphthalenesulfonic acid, ino-3-[[5-[4-chloro-6-{[5-hydroxy-7-aulfo-6-[[2-sulfo-4-[{2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-

naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) methoxy-5-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-7-sulfo-2-

naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX

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865359-60-0 CAPLUS 2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[[5-hydroxy-6-[[2-methoxy-5-methyl-4-[[2-(sulfooxy)ethyl)sulfonyl]phenyl]azo]-7-sulfo-2-

naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) 8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A СH2-СH2-OSO31

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865359-59-7 CAPLUS 2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[[5-hydroxy-6-[[2-

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN {Continued}
8-{{2-sulfo-4-{{2-(sulfooxy)ethyl}sulfonyl}phenyl}azo}- (9CI) (CA INDEX NAME)

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PAGE 1-B

RN 865359-61-1 CAPLUS CN 2-Naphthalenesulfonic acid, 7-amino-3-[[5-[{4-chloro-6-[{5-hydroxy-7-sulfo-

6-[[3-[[2-[[2-(sulfooxy)ethyl]sulfonyl]ethyl]amino;carbonyl)phenyl]azo]-2-

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

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ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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865359-63-3 CAPLUS 2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[[6-[[4-[(2,3-dibromo-1-oxopropy1)amino]-2-sulfophenyl]azo]-5-hydroxy-7-sulfo-2-

naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-8-[[2-sulfo-4-{[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) 863359-62-2 CAPLUS 2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[[6-[[5-[[2,3-dibromo-1-oxopropyl]amino]-2-sulfophenyl]azo]-5-hydroxy-7-sulfo-2-

naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-8-{[2-sulfo-4-{{2-(sulfooxy)ethyl]aulfonyl]phenyl]azo]-(9CI) (CA INDEX NAME)

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L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-B

865359-64-4 CAPLUS 2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[[6-[[5-[[4-[4-chloroethyl] sulfonyl]-1-oxobutyl] amino]-2-sulfophenyl]azo]-5-hydroxy-7-

sulfo-2-naphthaleny1]amino]-1,3,5-triazin-2-y1]amino]-2-sulfopheny1]azo]-4hydroxy-8-{[2-sulfo-4-[[2-(sulfooxy)ethy1]sulfony1]pheny1]azo]- (9CI) INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

PAGE 1-B

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) reddish brown shades which show good color strength and fastness characteristics. In an example, 2,4,6-trifluoropyrimidine was condensed (1:1) with 2,4-diaminobenzenesulfonic acid to provide a diazo component which was coupled with 4-hydroxy-7-[sulfomethylamino]-2-naphthalenesulfonic acid to give a reddish orange monoazo dye. This dye was coupled with diazotized 4-(2-sulfatoethylsulfonyl)aniline to provide

disazo reactive dye (Amax 496 nm), scarlet red on cotton.
61722-66-49 617722-67-59 617722-68-69
Rt. IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(scarlet red dye; production of reactive disazo dyes for cotton)
617722-66-4 CAPLUS
2-Naphthalenesulfonic acid, 8-([5-{(2,6-difluoro-4-pyrimidinyl)amino]-2-aulfophenyl]azo]-4-hydroxy-7-[(sulfomethyl)amino]-3-[(4-([2-(sulfooxy)ethyl]sulfonyl)phenyl]azo]- (9CI) (CA INDEX NAME)

617722-67-5 CAPLUS
2-Naphthalenesulfonic acid, 7-amino-3-[[5-[(2,6-difluoro-4-pyrimidinyl)amino]-2-sulfophenyl]azo]-4-hydroxy-8-[[2-sulfo-4-[(2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN APPLICANT
AN 2003:855992 CAPLUS
DN 139:351757
TI Reactive disazo dyes, their production and their use
IN Eichhorn, Joachim
PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
SO PCT Int. Appl.. 46 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CHT 1
PATENT NO. KIND DATE APPLICATION NO. DATE

AB The invention relates to azo dyes (I; H = H, alkali metal, 1/2 alkaline earth

earth
metal; R, R1 = H, C1-4-alkyl, sulfomethyl; X1, X2 = optionally
substituted
aryll, their production, and their use for dyeing or printing fibrous
materials containing hydroxy and/or carbonamide groups. I confer
scarlet to

ANSWER 2 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

617722-68-6 CAPLUS
2-Naphthalenesulfonic acid, 3,8-bis[[5-{(5-chloro-2,6-difluoro-4-pyrimldinyl)amino]-2-sulfophenyl]azo]-4-hydroxy-7-[(sulfomethyl)amino]-(8CI) (CA INDEX NAME)

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RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) PAGE 1-A

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- (CH2) 3-NEt2

ANSWER 3 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN 2003:823449 CAPLUS 139:324745 Water-soluble azo dye involving triazine structure for dyeing or printing of paper
Taniguchi, Koichi
Nippon Chemical Works Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKOXAF
Patent DT DI LA Jap. FAN.CNT 1 PATENT NO. DATE KIND DATE APPLICATION NO. PI JP 2003301120 PRAI JP 2002-109397 OS MARPAT 139:324745 A2 20031021 20020411 JP 2002-109397 20020411

The dye is that represented as I (D = coupler residue; X = CO, SO2, n =

1; R1-R4 = H, C1-4 alkyl, alkoxy, sulfonic acid, carboxy; A, B = halogen, OH, (substituted) amino, heterocycle; m = 1, 2]. The dye is used for printing or dyeing of paper without environment pollution by wastewater. Thus, reaction of cyanuric chloride, diethylaminopropylamine, morpholine, and 4,4'-diaminobenzanilide gave a diazo component, which was coupled

3-methyl-5-pyrazolone to give the dye. A sheet of paper was dyed with

dye to give a light- and moisture-resistant yellow sheet with high color d. associated with release of colorless wastewater. 6;13685-47-55
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Usea)
(water-soluble azo dye involving triazine structure for dyeing of

without environment pollution by wastewater)
613685-47-5 CAPLUS
Ethanaminium, 2-[[4-[[2-amino-6-[[4-[[4-[4,6-bis[[3-

ANSWER 4 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN 2003:777902 CAPLUS AN DN TI 139:293419 DN 139:293419

Mixtures of reactive azo dyes, their production and their use in Eichhorn, Joachim: Russ, Werner: Meier, Stefan; Mrotzeck, Uwe PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany CODEN: PIXXD2

DT Patent
LA German
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO. ΡI

ANSWER 4 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
2-Naphthalenesulfonic acid, 7-amino-3-[(5-[(2,6-difluoro-4-pyrimidinyl)amino]-2-sulfophenyl]azo]-4-hydroxy-8-[(2-sulfo-4-[(2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 2-A

●4 Na

607724-44-7 CAPLUS
2-Maphthaleneaulfonic acid, 3-[{5-[(2,6-difluoro-4-pyrimidinyl)amino]-2-aulfophenyl]azo]-4-hydroxy-7-[(sulfomethyl)amino]-8-[(4-[[2-(sulfooxy)ethyl]sulfonyl)phenyl]azo]-, tetrasodium salt (9CI) (CA INDEX NAME)

ANSWER 4 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 2-A

●3 Na

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE.CNT 7

L4 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

PAGE 2-A

607724-53-8 CAPLUS
2-Maphthalenesulfonic acid, 7-amino-3-[[5-[(2,6-difluoro-4-pyrimidinyl)amino]-2-sulfophenyl]azo]-4-hydroxy-8-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-, trisodium salt (9CI)
(CA INDEX

L4	ANSWER 5 OF 14 CAR	THE CO	PYRIGHT 2006	ACS OR STN	
AN	1998:217555 CAPLUS		TINIONI LOUG	ACS ON SIN	
DN	128:271684				
TI					
				rocyclic anchor and	
IN			antred; Hager	n, Helmut; Walther, B	erna-Peter
PA	BASF AG., Germany				
so	Ger. Offen., 96 pp.				
	CODEN: GWXXBX				
DT	Patent				
LA	German				
FAN.	CNT 1				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI	DE 19640189			DE 1996-19640189	
	WO 9814522		19980409	WO 1997-EP5041	19970915
	W: CN, ID, JP,	KR, US			
	RW: AT, BE, CH,	DE, DK	. ES, FI, FR,	GB, GR, IE, IT, LU,	MC, NL, PT,
SE					
	EP 929610	A1	19990721	EP 1997-942930	19970915
	EP 929610	B1	20020828		
	R: CH, DE, FR,	GB, IT,	. LI		
	CN 1239493	A	19991222	CN 1997-180235	19970915
	CN 1104472	В	20030402		
	JP 2001501242	T2	20010130	JP 1998-516175	19970915
	US 6197941	В1	20010306	US 1999-269186	19990329
PRAI	DE 1996-19640189	A	19960930		
	WO 1997-EP5041	W	19970915		
ns	MARPAT 128:271684				

$$z \begin{bmatrix} -L^2 - z \end{bmatrix}_b \begin{bmatrix} L^1 & X - L^3 - So_2 - Y \\ A^1 & A^2 \end{bmatrix}_{A} \quad I$$

The reactive dyes (I; Al, A2 = H, NO2, amino, SO3H, SO2C2H4SO3H; L1, L2 = bridging groups; L3 = C1-4-alkylene optionally containing O; X = 5- or 6-membered heterocyclic ring-containing connecting group; Y = vinyl or vinyl-forming group; <math>Z = azo coupling component or chromophore) are obtained for dyeing or printing of substrates containing OH groups or N s.

I show good fastness on cellulosics. Thus, 5-(2-aminophenyl)-3-[2-(2-sulfatoethylsulfonyl)ethyl]-1,2,4-oxadiazole was prepared and used as a diazo component with 2-amino-8-hydroxy-3,6-naphthalenedisulfonic acid, providing a red dye.
205237-93-0P
RE: INF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(red brown dye; preparation of heterocycle-containing reactive dyes IT

cellulosics)
205237-93-0 CAPLUS
2-Naphthalenesulfonic acid, 7-amino-4-hydroxy-8-[[2-[3-[2-[[2-(sulfooxy)ethyl]sulfonyl]-1,2,4-oxadiazol-5-yl]phenyl]azo]-3-[[2-sulfo-4-([4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]phenyl]azo]- (9CI)
(CA INDEX NAME)

ANSWER 5 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

PAGE 1-B

ANSWER 6 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) 193065-37-1P 193065-38-2P 193065-39-3P REL: IMP (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (reactive azo dyes from aminonaphthalenesulfonic acid coupling

(reactive azo dyes from aminonaphinalenessitents acts cooping components)
193065-37-1 CAPLUS
1,3-Benzenedisulfonic acid, 4-[{6-[{5-({4-chloro-6-[{4-[{2-(sulfooxy)ethyl]sulfonyl)phenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-5-hydroxy-7-sulfoo-2-(sulfomethyl)amino]-1-naphthalenyl]azo]-6-[[2-(sulfooxy)ethyl]sulfonyl]- (9CI) (CA INDEX NAME)

PAGE 1-B

193065-38-2 CAPLUS

ANSWER 6 OF 14 CAPLUS COPYRIGHT 2006 ACS ON STN 1997:532584 CAPLUS 127:137062 127:137062
Reactive szo dyes with an aminonaphthalenesulfonic acid coupling component, their intermediates and their use Zamponi, Andrea: Patach, Manfred; Loffler, Hermann BASF A.-G., Germany; Zamponi, Andrea: Patsch, Manfred; Loffler, Hermann PCT Int. Appl., 38 pp.
CODEN: PIXXD2
Patent DT Patent
LA English
FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE wo 9725377 A1 19970717 WO 1997-EP13 19970103 ΡĪ 9725377 Al 19970717 WO 1997-EP13 W: AU, BG, BR, CA, CC, GE, BE, HU, IL, JP, KR, LV, MC, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE DE 19600765 AU 9713096 EP 876431 EP 876431 19970717 19970801 19981111 20011031 DE 1996-19600765 AU 1997-13096 EP 1997-900559 Δı 19960111 19970103 EP 876431 B1 20011031 R: CH, DE, FR, GB, IT, LI JP 2000503058 T2 20000314 US 6011140 A 20000104 DE 1996-19600765 A 19960111 WO 1997-EP13 W 19970103 JP 1997-524838 US 1998-101183 19970103 19980706 US 6011140
PRAI DE 1996-19600765
WO 1997-EP13
OS MARPAT 127:137062

$$\begin{bmatrix} G^1 & N = N \\ R^2 & N = N \\ NHR^1 & X \\ NO_3S & G^2 & D \\ N & & I \end{bmatrix}$$

The dyes (I; n = 1, 2; G1 = H, H0; G2 = H, H03S; G3 = H, arylazo; R1, R2

H, HO3SCH2; X = radical of a diazo or tetrazo component having in each case at least one SO2Y group, where Y is vinyl or substituted Et) are obtainable from the appropriately substituted 2-naphthylamine coupling component precursors and are useful for dyeing or printing hydroxyl-containing or nitrogenous organic substrates. Cellulosic substrates in particular

dyed in very high fixation yield and with very high fastness. Thus, 2-aminonaphthalene-5-sulfonic acid was N-sulfomethylated and then coupled with diazotized 4-(2-sulfatoethylsulfonyl)aniline to give a scarlet (Amax 483 nm) dye.

ANSWER 6 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
1.3-Benzenedisulfonic acid, 4-[[5-[[5-[[4-chloro-6-[[4-[[2-(sulfooxy]ethyl]sulfonyl]phenyl]amino]-1, 3-triazin-2-yl]amino]-2sulfophenyl]azo]-1-hydroxy-3-sulfo-6-[[sulfomethyl]amino]-2naphthalenyl|azo]-6-[[2-(sulfooxy)ethyl]sulfonyl]- (9CI) (CA INDEX NAME)

193065-39-3 CAPLUS
1,3-Benzenedisulfonic acid, 4-[[6-[[5-[[4-chloro-6-[[3-[[2-(sulfooxy] ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-5-hydroxy7-3-sulfo-2-f(sulfooxyl)azo]-5-hydroxy7-3-sulfo-2-f(sulfooxy)ethyl]sulfonyl]- (GC INDEX NAME)

L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

PAGE 1-B

L4 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) aftertreatment with copper salts for improved lightfastness) RN 17265-73-5 CAPLUS
CN Benzoic acid, 5-[4-chloro-6-[4-[5-hydroxy-6-{[2-methoxy-5-methyl-4-[2-

sulfophenyl)azo]phenyl]azo]-2-{methylamino}-7-sulfo-1-naphthalenyl}azo]-3-sulfophenyl]amino]-1,3,5-triazin-2-yl]amino]-2-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A

ANSWER 7 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN 1996:38882 CAPLUS 124:178813 DN 124:178813
T1 Dyeing cellulosic or cellulosic blend fabrics with reactive dyes treatable
with Copper salts and treating dyed fabrics with copper salts for improved lightfastness Morimura, Naoki; Sotokoshi, Teruhito Nippon Kayaku Kk, Japan Jpn. Kokai Tokkyo Koho, 7 pp. CODEN: JKKAF so DT Patent LA Japanese FAN.CNT 1 PATENT NO. DT KIND DATE APPLICATION NO. DATE PI JP 07258983 PRAI JP 1994-70230 GI A2 JP 1994-70230 19940316 19951009 19940316

AB In the title process, cellulosic fibers are dyed with reactive dyes having a structure for coordination with Cu, optionally washed without the sosping step, and treated with Cu salts or their mixts. with other fixing agents. A cotton knit was dyed with a solution containing reactive dye I, washed

ished with hot H2O, dried, and treated with an aqueous CuSO4 solution at 60°

20 min to give a greenish dark blue fabric with color yield 130% and lightfastness rating (JIS L-0842-1988) 6. 172465-73-5
RL: TEM (Technical or engineered material use); USES (Uses) (dye; for dyeing cellulosic or cellulosic blend fabrics and

L4 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1995;986734 CAPLUS

DN 124:90174

I Reactive dyeing and copper-post-treatment of cellulosic fibers

IN Morimura, Naoki

N Nippon Kayaku Kk, Japan

Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKCKAF

DT Patent

L4 Japanese

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. PATENT NO. KIND DATE APPLICATION NO.

PI JP 07252786 A2 19951003 JP 1994-66512 19940311
PRAI JP 1994-66512 19940311
AB Cellulosic fibers are dyed with reactive dyes coordinatable with Cu and then treated with copper to improve colorfastness. The dyed products are also claimed. Thus, a cotton fabric was dyed in an aqueous dyeing bath containing containing
a reactive trisazo dye and anhydrous Glauber's salt, mixed with Na2CO3

and

washed to give a dyed fabric showing deep bluish red. Dipping the dyed fabric in an aqueous solution containing Cu sulfate, heating to 60°,

keeping at this temperature for 20 min, washing, soaping, dewatering and drying at this temperature for 20 man, naturally at this temperature for 20 man, and at this this temperature for 20 man, and at this temperature for 20 man,

sulfophenyl)azo]phenyl]azo]-2-{methylamino}-7-sulfo-1-naphthalenyl]azo]-3-sulfophenyl]amino]-1,3,5-triazin-2-yl]amino]-2-hydroxy- (9CI) (CA INDEX NAME.)

ANSWER 8 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

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ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

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ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
1991:494413 CAPLUS
115:94413
Water-soluble fiber-reactive trisazo dyes for cellulosic or
nitrogen-containing fibers
Hibara, Toshio
Mitaubishi Kasel Corp., Japan
Jph. Kokai Tokkyo Koho, 7 pp.
CODEN: JODGAF
Patent
Japanese
CNT 1

DT

LA Japa. FAN.CNT 1 PATENT NO. KIND DATE PI JP 03056569 JP 2729402 PRAI JP 1989-193120 OS MARPAT 115:94413 DATE APPLICATION NO. A2 B2 19910312 JP 1989-193120 19890726 19980318 19890726

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The dyes [I (as free acid); R1 = H, SO3H, SO2W; R2 = H, SO3H; W = CH:CH2, CH2CH2OSO3H; X = 5-chloro-2,6-difluoro-4-pyrimidinyl, Q1; Y = halogen, NHC6H4SO2W; Z = (un) substituted lower alkylamino or phenylamino, NHC6H4SO2W] give fast navy blue dyed products. Thus, 1 mol monoazo

II was diazotized and coupled with 1 mol monoazo dye III (R3 = H) in

compound

II was diazotized and coupled with 1 mol monoazo dye III (R3 = H) in water

at 10 ± 3° and pH 7.5-8.5 to give trisazo dye III (R3 = Q2),
Amax 607 nm. Then, 3 g of the dye was dissolved in 300 mL water,
then mixed with 20 g Glauber's salt to give a dyebath; 15 g cotton cloth
was immersed in the bath, heated to 70°, 4.5 g Na2CO3 was added,
then heated at 70° for 1 h, washed with water, acaped, washed with
water, then dried to give a navy-blue product, which showed good
resistance to discoloration by ironing and by immersion in aqueous NaOH.

II 135459-64-2P 135459-65-3P 135459-66-4P
135459-67-97 135459-68-67-135459-68-77
135459-73-1P 135459-74-1P 135459-72-2P
135459-73-1P 135459-71-1P 135459-72-2P
135459-73-97 135459-77-7P 135459-80-2P
135459-73-97 135459-77-7P 135459-80-2P
135459-73-97 135459-77-7P 135459-80-2P
135459-73-97 136459-77-7P 135459-80-2P
135459-73-97 136459-77-7P 135459-80-2P
135459-64-2 CAPPLUS

CN 2-Naphthalenesuifonic acid, 3-[[5-([aminocarbonyl]amino]-2-methoxy-4-[[2-suifo-4-([2-[auifooxy]ethyl]suifonyl]phenyl]azo]benyl]azo]-8-[[4-[[5-[chloro-2,6-difluoro-4-pyrimidinyl]nmino]-2-suifophenyl]azo]-4-hydroxy-7(methylamino)- (SCI) (CA INDEX NAME)

ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) 2-Naphthalenesulfonic acid, 3-[[5-[(aminocarbonyl)amino]-2-methoxy-4-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]phenyl]azo]-8-[[4-[(4-

chloro-6-methoxy-1,3,5-triazin-2-yl)amino]-2-sulfophenyl]azo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

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ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued) PAGE 2-A

SO3H

135459-66-4 CAPLUS
2-Naphthalenesulfonic acid, 3-[[5-[(aminocarbonyl)amino]-2-methoxy-4-[[2-sulfo-4-[[2-(sulfooxy]ethyl]sulfonyl]phenyl]azo]phenyl]azo]-8-[[4-[[4-chlore-6-([4-sulfophenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

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ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

PAGE 1-B

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PAGE 2-A

l so₃H

135459-67-5 CAPLUS

1,3-Benzenedisulfonic acid, 4-[[2-[[aminocarbonyl]amino]-4-[[1-hydroxy-6[methylamino]-3-sulfo-5-[[2-sulfo-4-[[4-[[3-[[3-[[3-[4-[2-[sulfooxy]ethyl]sulfonyl]phenyl]amino]-6-[[4-[[3-[3-[4-[2-[sulfooxy]ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2yllamino]phenyl]azo]-2-naphthalenyl]azo]-5-methoxyphenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 2-B

135459-68-6 CAPLUS

Benzoic acid, 3-[[4-[[4-[[5-[[5-{ (aminocarbonyl) amino}-2-methoxy-4-[(2-sulfophenyl) azo]-5-hydroxy-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-2,5-disulfophenyl]amino]-6-fluoro-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A

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135459-69-7 CAPLUS 2-Naphthalenesulfonic acid, 3-[[5-[{aminocarbonyl}amino]-2-methoxy-4-[{2sulfophenyl)azo}phenyl]azo]-8-[[4-([4-chloro-6-{(2-sulfoethyl)amino}-1,3,5L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) triazin-2-yllamino)-2-sulfophenyllazo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

PAGE 2-A HO3S

RN 135459-70-0 CAPLUS
CN 2-Naphthalenesulfonic acid, 3-[[5-[(aminocarbonyl)amino]-2-methoxy-4-[[2-aulfophenyl]azo]phenyl]azo]-8-[[4-[[4-fluoro-6-[(2-hydroxyethyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-7-(methylamino]-(9CI)
(CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

PAGE 2-B

RN 135459-72-2 CAPLUS
CN 2-Naphthaleneaulfonic acid, 3-[[5-[[aminocarbonyl]amino]-2-methoxy-4-[{2-sulfophenyl]aro]phenyl]aro]-8-[[4-[[4-chloro-6-(1-methylethoxy)-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]szo]-4-hydroxy-7-(methylamino)- (9CI)
(CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 135459-71-1 CAPLUS
CN 1,4-Benzenedisulfonic acid, 2-[[6-[[5-[(aminocarbonyl)amino]-2-methoxy-4-((2-sulfophenyl)azo]phenyl]azo]-5-hydroxy-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-5-[[4-chloro-6-[[3-[2-(sulfooxy]ethyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 2-A HO3S

RN 135459-73-3 CAPLUS
CN 1,3-Benzenedisulfonic acid, 4-[[2-[(aminocarbonyl)amino]-4-[[5-[[4-[[4-(ethylamino)-6-fluoro-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-1-hydroxy-6-(methylamino)-3-sulfo-2-naphthalenyl]azo]-5-methoxyphenyl]azo]-(9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

PAGE 1-A

PAGE 2-A

135459-74-4 CAPLUS 2-Naphthalenesulfonic acid, 3-[[5-[(aminocarbonyl)amino]-2-methoxy-4-[(2-

sulfophenyl)azo]phenyl]azo]-8-[[4-[[4-[bis(2-hydroxyethyl)amino]-6-chloro1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-7-(methylamino)(9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

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135459-75-5 CAPLUS
1,4-Benzenedisulfonic acid, 2-[[6-[[5-[(aminocarbonyl)amino]-2-methoxy-4-[(2-sulfophenyl)azo]phenyl]azo]-5-hydroxy-2-(methylamino)-7-sulfo-1-

naphthalenyl]azo]-5-[{4-chloro-6-[{4-(ethenylsulfonyl)phenyl]amino]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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DACE 2-1

RN 135459-77-7 CAPLUS
CN Benzoic acid, 4-[[4-[[4-[[5-[[4minocarbonyl]amino]-4-[[4[ethenylaulfonyl]-2-sulfophenyl]azo]-2-methoxyphenyl]azo]-5-nydroxy-2[methylamino]-7-sulfo-1-naphthalenyl]azo]-3-sulfophenyl]amino]-6-chloro1,3,5-triazin-2-yl]amino]-3-sulfo- [9CI] (CA INDEX NAME)

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L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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RN 135484-38-7 CAPLUS
CN 1,4-Benzenedisulfonic acid, 2-[[6-[[5-[[aminocarbonyl]amino]-4-[[2,5-disulfophenyl]azo]-2-methoxyphenyl]azo]-5-hydroxy-2-(methylamino]-7-sulfo-l-naphthalenyl[azo]-5-[[4-fluoro-6-(phenylamino]-1,3,5-triazin-2-yl]amino]-(9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 2-B

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RN 135459-80-2 CAPLUS
CN 1,4-Benzenedisulfonic acid, 2-[[2-[(aminocarbonyl)amino]-4-[[5-[[4-[[4-chloro-6-[[3-[[2-(sulfooxylethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-1-hydroxy-6-(methylamino)-3-sulfo-2-naphthalenyl]azo]-5-methoxyphenyl]azo]- (9CI) (CA INDEX NAME)

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L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN 1989:77498 CAPLUS 110:77498 110:77498 Navy-blue reactive trisazo dyes and dyeing therewith Matsunage, Ryozo; Sotokoshi, Teruhito Nippon Kayaku Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 16 pp. CODEN: JKXXAP L4 AN DN TI IN PA 50 DT Patent LA Japanese FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE PI JP 63199269 JP 07013200 PRAI JP 1987-29523 OS MARPAT 110:77498 19880817 19950215 19870213 19870213 JP 1987-29523 A2 B4

$$R^2$$
 $N=N$
 $N=N$

The title dyes providing cotton dyeings excellent in fastness to both chlorine water and perspiration-light combination have the free-acid form I (R = fiber-reactive group residue based on N-heterocycles containing halogen; R1, R2, R3 = H, Me, OMe, OEt, C1, COZH, OH, SOJM, NOZ, NHAC, NHCONH2, SOZNH2, SOZME, SOZCHZCHZOH; R4, R5 = OMe, OEt, NHAC, Me; R6 =

Et, Ph; R7, R8 = SO3H, CO2H, Me, Cl, NO2, H). Condensate of cyanuric chloride with 2,5-HO(H2N) C6H3CO2H and 2,5-(H2N) 2C6H3SO3H was diazotized and coupled with 1,6,3-HO(MeNH) C1OHSSO3H, and the resulting azo compound coupled with diazotized 2-H2NCGH4SO3H - 2,5-MeONECGH3NN12 and salted to give I (R = Q; R1 = 2-SO3H; R2 = R3 = R8 = H; R4 = 5-OMe; R5 = 2-Me;

= Me: R7 = 2-SO3H; Na salt). 118695-19-5 118695-20-8 118695-21-9 118695-22-0 118695-23-1 118695-24-2 118695-25-3 118695-26-4 118695-27-5 IT

ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 2-B

RN 118695-20-8 CAPLUS
CN 1,3-Benzenedisulfonic acid,
4-[[4-[[4-[[4-chloro-6-(methylamino)-1,3,5-

triazin-2-yl]amino]-3-nitrophenyl]azo]-1-hydroxy-6-{methylamino}-3-sulfo-2-naphthalenyl]azo]-5-methoxy-2-methylphenyl]azo]-5-methyl- (9CI) (CA INDEX NAME)

ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
118695-28-6 118695-29-7 118653-30-0
118695-31-1 118695-32-2 118653-30-3
118695-34-4 118695-32-2 118655-38-6
118695-37-7 118695-38-8 118695-38-9
118695-40-2 118695-41-3 118695-42-4
118695-43-5 118695-46-6 118695-45-7
118695-46-8 118695-50-4 118695-51-5
118695-52-6 118695-50-4 118695-51-5
118695-52-6 118695-50-0 118695-51-5
118695-52-6 118695-50-0 118695-51-7
118720-55-1 118720-56-2 118720-57-3
118720-58-4 118775-97-6
RL: USES (Uses)
(dye, navy blue, for cotton)
118695-19-5 CAPLUS
2-Naphthalenesulfonic acid, 8-[4-[4-(4-chloro-6-[[3-[(2-sulfophenyl]azo]-4-hydroxy-3-[(2-methoxy-5-methyl-4-[(2-sulfophenyl]azo]-phenyl]azo]-7-(methylamino)- (9CI) (CA INDEX NAME)

PAGE 1-A

ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

118695-21-9 CAPLUS 2-Naphthalenesulfonic acid, 8-[[4-[(4-amino-6-chloro-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]azo]-3-[(4-((2,5-dichloro-4-sulfophenyl)azo]-2-methoxy-5-methylphenyl]azo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

> PAGE 1-A HO3S

> > PAGE 2-A

118695-22-0 CAPLUS
Benzoic acid, 5-chloro-2-[(4-{[5-[4-[4-chloro-6-[{2-cyanophenyl}ato]-1-3,5-triazin-2-y1]amino]-3-sulfophenyl]azo]-1-hydroxy-6-(methylamino)-3-sulfo-2-naphthalenyl]azo]-5-methoxy-2-methylphenyl]azo]-4-sulfo- (9CI) (CA INDEX NAME)

ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

118695-24-2 CAPLUS
Benzoic acid, 2-[(4-chloro-6-[[4-[[5-hydroxy-6-[[4-([2-hydroxy-5-nitro-3-sulfopheny1)azo]-2-methoxy-5-methylpheny1]azo]-2-(methylamino]-7-sulfo-1-naphthaleny1]azo]-2-sulfopheny1)amino]-1,3,5-triazin-2-yl]amino]-5-sulfo-(9CI) (CA INDEX NAME)

PAGE 1-A

ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A HO 35

PAGE 2-A

RN 118695-23-1 CAPLUS
CN Benzoic acid,
4-[[4-choro-6-[[4-[[5-hydroxy-6-[[2-methoxy-4-[(5-methoxy-4-nitro-2-sulfophenyl)azo]-5-methylphenyl]azo]-2-(methylamino)-7-sulfo-1-

naphthalenyl]azo]-2-sulfophenyl]amino]-1,3,5-triazin-2-yl]amino]-2-hydroxy-6-sulfo- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

118695-25-3 CAPLUS 2-Naphthalenesulfonic acid, B-[[4-[[4-chloro-6-[(2-methyl-4-

sulfophenyl)amino)-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]azo]-4-hydroxy3-[[4-[(2-hydroxy-4-nitrophenyl)azo]-7(methylamino)- (9CI) (CA INDEX NAME)

PAGE 2-A

ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) 2-Naphthalenesulfonic acid, 8-[[4-[4-chloro-6-[(4-sulfophenyl) amino]-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]azo]-4-hydroxy-3-[[4-[(3-hydroxyp-hydroxyp-hydroxyp-denyl]azo]-7-(methylamino)- [9CI) (CA INDEX NAME)

118695-27-5 CAPLUS
2-Naphthalenesulfonic acid, 8-[[4-[[4-chloro-6-[(3-sulfophenyl)amino]-

1,3,5-triazin-2-y1]amino]-3-sulfophenyl]azo]-4-hydroxy-3-[{2-methoxy-4-[(2-methoxy-4-[(2-methoxy-5-nitrophenyl)azo]-5-methylphenyl]azo]-7-(methylamino)- {9CI}

INDEX NAME)

ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

118695-29-7 CAPLUS

1,4-Benzenedisulfonic acid, 2-chloro-6-[[4-[[5-[[4-[[4-chloro-6-[phenylamino]-1,3-5-trlazin-2-yl]amino]-3-sulfophenyl]azo]-1-hydroxy-6-[methylamino]-3-sulfo-2-nephthalenyl]azo]-5-methoxy-2-methylphenyl]azo]-(9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

PAGE 1-A

· PAGE 2-A

RN 118695-28-6 CAPLUS
CN 2-Maphthalenesulfonic acid,
3-{4-[[5-(aminosulfonyl]-2-methoxyphenyl]azo}2-methoxy-5-methylphenyl]azo]-8-{{4-[(4-chloro-6-{(3-sulfophenyl)amino}-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]azo]-4-hydroxy-7-(methylamino)-(9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 2-A

118695-30-0 CAPLUS Glycine, N-{4-chloro-6-[{4-{[5-hydroxy-6-{{4-{[2-hydroxy-4-

(methylsulfonyl)phenyl]azo]-2-methoxy-5-methylphenyl]azo]-2-(methylamino)7-sulfo-1-naphthalenyl]azo]-2-sulfophenyl]amino]-1,3,5-triazin-2-yl](9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 118695-31-1 CAPLUS
CN 2-Naphthalenesulfonic acid, 8-[[4-[(5-chloro-2,6-difluoro-4-pyrimidinyl]amino]-2-sulfophenyl]azo]-4-hydroxy-3-[[2-methoxy-5-methyl-4-[(2-sulfophenyl)azo]phenyl]azo]-7-(methylamino)- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

PAGE 2-A

RN 118695-32-2 CAPLUS
CN 2-Maphthalenesulfonic acid, 4-hydroxy-3-[[2-methoxy-5-methyl-4-[[2-sulfo-4-[(2,5,6-trichloro-4-pyrimidinyl)amino]phenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

PAGE 2-A

RN 118695-33-3 CAPLUS
CN 2-Naphthalenesulfonic acid, 8-[[4-[(5-chloro-2-fluoro-6-methyl-4-pyrimidinyl)amino]-2-sulfophenyllazo]-4-hydroxy-3-[[2-methoxy-5-methyl-4-[(2-sulfophenyl)azo]phenyl]azo]-7-(methylamino)- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

PAGE 2-A HO3S

RN 118695-34-4 CAPLUS
CN 2-Maphthalenesulfonic acid,
8-[(4-((4,6-dichloro-1,3,5-triazin-2-yl)amino]2-sulfophenyl)azo]-4-hydroxy-3-[(2-methoxy-5-methyl-4-[(2sulfophenyl)azo]phenyl)azo]-7-(methylamino)- (9CI) (CA INDEX NAME)

118695-35-5 CAPLUS
2-Naphthalenesulfonic acid, 8-[[4-[[{2,3-dichloro-6-

quinoxalinyl)carbonyl]amino]-2-sulfophenyl]azo]-4-hydroxy-3-[[2-methoxy-5-methyl-4-[(2-sulfophenyl)azo]phenyl]azo]-7-(methylamino)- (9CI) (CA INDEX NAME)

ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

SOAH

RN 118695-37-7 CAPLUS
CN Benzoic acid,
5-[[4-chloro-6-[(4-[(5-hydroxy-6-[[2-methoxy-5-methyl-4-[(4-nitro-2-sulfophenyl)azo]phenyl]azo]-2-(methylamino)-7-sulfo-1-

naphthalenyl]azo]-2-sulfophenyl]amino]-1,3,5-triazin-2-yl]amino]-2-hydroxy(9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A SO3H

118695-38-8 CAPLUS
2-Maphthalenesulfonic acid, 8-[[4-{[4-chloro-6-{(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]azo]-4-hydroxy-3-[[2-methoxy-5-methyl-4-(phenylazo)phenyl]azo]-7-(methylamino)- (9CI) (CA INDEX NAME)

ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 118695-36-6 CAPLUS CN Benzoic acid, 5-[{4-fluoro-6-[{4-{\script-6-[{2-methoxy-5-methyl-4-[{2-

PAGE 1-A

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

118695-39-9 CAPLUS
2-Naphthalenesulfonic acid, 8-{[4-[[4-chloro-6-[(3-methylphenyl)amino]-1,3,5-triazln-2-yl]amino]-3-sulfophenyl]azo]-4-hydroxy-3-[[2-methoxy-5-methyl-4-[(4-sulfophenyl)azo]phenyl]azo]-7-(methylamino)- (9CI) (CA INDEX

NAME)

RN 118695-40-2 CAPLUS
CN 2-Maphthalenesulfonic acid,
8-[[4-[[4-[id-[bis(2-hydroxyethyl]amino]-6-chloro1,3,5-triazin-2-yl[amino]-3-sulfophenyl]azo]-3-{[4-[(2,5-dimethylphenyl]azo]-2-methoxy-5-methylphenyl]azo]-4-hydroxy-7(methylamino)- [9C1] (CA INDEX NAME)

PAGE 1-A

ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

118695-42-4 CAPLUS
2-Naphthalenesulfonic acid, 8-{[4-[4-chloro-6-[(3-sulfophenyl)amino]-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]azo]-3-[[2,5-diethoxy-4-[(4-methoxy-2-sulfophenyl)azo]phenyl]azo]-4-hydroxy-7-(methylamino)- [9CI)(CA INDEX NAME)

PAGE 1-A

PAGE 2-A

118695-43-5 CAPLUS
Benzoic acid, 5-[[4-chloro-6-[[4-[[6-[[2,5-diethoxy-4-[(4-methoxyphenyl)azo]phenyl]azo]-5-hydroxy-2-(methylamino)-7-sulfo-1-

naphthalenyl]azo]-2-sulfophenyl]amino]-1,3,5-triazin-2-yl]amino]-2-hydroxy-(9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

118695-41-3 CAPLUS
2-Naphthalenesulfonic acid, 3-[[4-[(5-chloro-4-methyl-2-sulfophenyl)azo]-2,5-dimethoxyphenyl]azo]-8-[[4-[(4-chloro-6-[(3-sulfophenyl)amino]-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]azo]-4-hydroxy-7-(methylamino)- (9CI)
(CA INDEX NAME)

PAGE 1-A

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ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

118695-44-6 CAPLUS
2-Maphthalenesulfonic acid, 8-{[4-[(4-chloro-6-[(3-sulfophenyl)amino]-1,3,5-triazin-2-yl)amino]-3-sulfophenyl]azo]-3-[(4-((4-chloro-2-sulfophenyl)azo]-2-methoxy-5-methylphenyl)azo]-4-hydroxy-7-(phenylamino)-(9CI) (CA INDEX NAME)

RN 118695-45-7 CAPLUS
CN Benzoic acid,
5-{{4-chloro-6-{14-{6-{14-{3-chlorophenyl}azo}-2-methoxy-5-methylphenyl}azo}-2-{ethylamino}-5-hydroxy-7-sulfo-1-naphthalenyl]azo]-2sulfophenyl]amino]-1,3,5-triazin-2-yljamino]-2-hydroxy- (9CI) (CA INDEX NAME)

RN 118695-46-8 CAPLUS
CN 2-Naphthalenesulfonic acid,
3-{d-{(2-chloro-6-hydroxy-4-sulfophenyl)azo}2,5-dimethoxyphenyl)azo]-8-[(4-{(4-chloro-6-{(3-sulfophenyl)amino}-1,3,5-triazin-2-yl)amino}-3-sulfophenyl]azo]-7-(ethylamino}-4-hydroxy- (9CI)
(CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

PAGE 2-A

118695-48-0 CAPLUS
Benzoic acid, 5-[[4-{[5-[[3-chloro-4-[[4-chloro-6-{(2-aulfoethyl)amino]-1,3,5-triazin-2-yl]amino]phenyl]azo]-1-hydroxy-6-(methylamino)-3-aulfo-2-naphthalenyl]azo]-5-methoxy-2-methylphenyl]azo]-2-hydroxy-3-sulfo- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

RN 118695-47-9 CAPLUS
CN Benzoic acid,
2-{[4-[5-[4-[4-[6is{2-hydroxyethyl}amino}-6-chloro-1,3,5-

triazin-2-yl]amino]-3-sulfophenyl]azo]-1-hydroxy-6-(phenylamino)-3-sulfo-2-naphthalenyl]azo]-5-methoxy-2-methylphenyl]azo]-5-sulfo- {9CI} (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

PAGE 2-A CO2H

l18695-49-1 CAPLUS
Benzoic acid, 5-(acetylamino)-2-[[4-[[5-[[4-[[4-[(carboxymethyl)amino]-6-chloro-1, 3,5-triazin-2-yl]amino]-3-methylphenyl]azo]-1-hydroxy-6-(methylamino)-3-sulfo-2-naphthalenyl]azo]-5-methoxy-2-methylphenyl]azo]-(9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

PAGE 2-A Г со₂н

RN 118695-50-4 CAPLUS

Enzoic acid,

2-[(4-[5-[3-carboxy-4-{[4-chloro-6-[(3-sulfophenyl)amino]1,3,5-triazin-2-yl]amino]phenyl)azo]-1-hydroxy-6-(methylamino)-3-sulfo-2naphthalenyl)azo]-5-methoxy-2-methylphenyl)azo]-5-nitro- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

l18695-52-6 CAPLUS
Benzoic acid, 2-[(4-chloro-6-methoxy-1,3,5-triazin-2-y1)amino]-5-[[5-hydroxy-6-[[4-[[2-hydroxyethyl]sulfonyl]phenyl]azo]-2-methoxy-5-methylphenyl]azo]-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

PAGE 2-A

118695-51-5 CAPLUS
1,4-Benzenedisulfonic acid, 2-[[4-chloro-6-{phenylamino}-1,3,5-triazin-2-yl]amino}-5-[[5-hydroxy-6-[[2-methoxy-5-methyl-4-[(4-nitrophenyl]azo]phenyl]azo]-2-[methylamino}-7-sulfo-1-naphthalenyl]azo]-(9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

118695-53-7 CAPLUS Benzoic acid, 5-[[4-chloro-6-[[4-[[5-hydroxy-6-{[4-[[4-[(2-

hydroxyethyl)sulfonyl]-2-methoxyphenyl]azo]-2-methoxy-5-methylphenyl]azo]2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-2-sulfophenyl]amino]-1,3,5triazin-2-yl]amino]-2-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-B

-cн₂-он

PAGE 2-A

RN 118695-54-8 CAPLUS
CN 2-Naphthalenesulfonic acid, 8-[[4-[[4-chloro-6-[(3-chloro-4-sulfophenyl]amino]-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]azo]-3-[[4-[(2,5-dimethoxyphenyl)azo]-2-methoxy-5-methylphenyl]azo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

OH N=N Me

RN 118695-56-0 CAPLUS
CN Benzoic acid, 5-[[4-[[4-[[6-[[4-[[3-[(aminocarbonyl)amino]phenyl]azo]-2-methoxy-5-methylphenyl]azo]-5-hydroxy-2-(methylamino)-7-sulfo-1-

naphthalenyl]azo]-2-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-2-hydroxy- (9CI) (CA INDEX NAME) L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 2-A

RN 118695-55-9 CAPLUS
CN 2-Naphthalenesulfonic acid, 8-[[4-[[4-chloro-6-[[4-chloro-2-

sulfophenyl)amino]-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]azo]-4-hydroxy3-[[2-methoxy-4-[(2-methoxy-5-methylphenyl)azo]-5-methylphenyl]azo]-7(methylamino)- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CO₂H NH HO₃S

PAGE 1-B

PAGE 1-A

— пн2

RN 118695-57-1 CAPLUS
CN 1,4-Benzenediaulfonic acid, 2-[[4-[[5-[[4-[[4-chloro-6-[{2-chlorophenyl}amino]-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]azo]-1-hydroxy-

6-(methylamino)-3-sulfo-2-naphthalenyl]azo]-5-methoxy-2-methylphenyl]azo]-

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) (9CI) (CA INDEX NAME)

PAGE 2-A

RN 118720-55-1 CAPLUS
CN 2-Naphthalenesulfonic acid, 8-[[4-[[4-chloro-6-[{2-pydroxyethyl]methylamino]-1,3,5-triazin-2-yllamino]-3-sulfophenyl]azo]-3-[[[4-[[5-chloro-2-methoxyphenyl]azo]-2-methoxy-5-methylphenyl]azo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 2-A | OEt

RN 118720-57-3 CAPLUS CN Benzoic acid, 5-[[4-[[4-[[4-([2-carboxyphenyl)azo]-2-methoxy-5-

methylphenyl|azo|-5-hydroxy-2-(methylamino)-7-sulfo-1-naphthalenyl|azo|-2sulfophenyl|amino|-6-chloro-1,3,5-triazin-2-yl|amino|-2-hydroxy- (9CI) (CA INDEX NAME) L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

RN 118720-56-2 CAPLUS CN Benzoic acid, 5-[[4-[[4-[[5-(acetylamino)-4-[(2,5-diethoxyphenyl)azo]-

2-methoxyphenyl]azo|-5-hydroxy-2-(methylamino)-7-sulfo-1-naphthalenyl]azo|2-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-2-hydroxy- (9CI)
(CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

> PAGE 2-A | CO2H

RN 118720-58-4 CAPLUS

CN 2-Naphthalenesulfonic acid, 3-{[4-[4-(acetylamino)-2-sulfophenyl]azo]-2-methoxy-5-methylphenyl]azo]-8-[[4-[4-chloro-6-(methylphenylamino)-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]azo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

PAGE 1-A

RN 118775-97-6 CAPLUS
CN Benzoic acid,
5-[[4-chloro-6-[[4-[[5-hydroxy-6-{[2-methoxy-5-methyl-4-[(2-

sulfophenyl)azo]phenyl]azo]-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-3sulfophenyl]amino]-1,3,5-triazin-2-yl]amino]-2-hydroxy-, tetrasodium salt
(9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN AN 1982:440310 CAPLUS DN 97:40310 T1 Trisazo direct dyes PA Nippon Kayaku Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 5 pp. CODEN: JKKKAF DP Patent LA Japanese FAN.CNT 1

EMV.	CMII				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 57047358	A2	19820318	JP 1980-121231	19800903
	JP 63017300	B4	19880413		
	DE 3134579	A1	19820819	DE 1981-3134579	19810901
	СН 646448	A	19841130	CH 1981-5659	19810902
PRAI GI	JP 1980-121231	A	19800903		

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Trisazo direct dyes of free acid form I (R = H, Me, Ph; R1 = Ac, PhSO2, McG6H4SO2, ClC6H4SO2, R2; R3 = HO, CO2H, or SO3H group-containing, aliphatic

amine residue or morpholino) were prepared which can be used together

amine residue or morpholino) were prepared which can be used together with a disperse and cationic dye in dyeing cotton-polyester and cotton-acrylic blends, resp., in navy blue shades. For example, 4,3-H2N(MeO)C6H3C6H3(OME)NR2-3,4 [119-90-4] whas tetrazotized and coupled with 1,8,3,6-(4-MeC6H4SOZNH)(MO)C10H4(SO3H)2 [6860-97-5] and then 1,2,5,7-12,4-(HOC2)(OZN)C6H3N:N)(HIZN)(MO)C10H4SO3H [61827-73-4] and salted to give I (R = H; R1 = 4-MeC6H4SO2) [82382-81-8].

12 82382-66-99 82382-76-09 82382-73-1-69
RL: MSC (Miscellaneous); PREP (Preparation) (dyes, direct, for cotton blends, manufacture of)
RN 82382-66-9 CAPLUS

Benzolc acid, 2-[(2-amino-5-hydroxy-6-[[4'-([1-hydroxy-8-[[4-[(2-Chisper) - Action of the control of the

hydroxyethyl)amino]-6-(phenylamino)-1,3,5-triazin-2-yl)amino]-3,6-disulfo-2-naphthalenyl]azo]-3,3'-dimethoxy[1,1'-biphenyl]-4-yl]azo]-7-sulfo-1-naphthalenyl]azo]-5-nitro- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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PAGE 2-A 503H

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

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82382-67-0 CAPLUS

Benzoic acid, 2-{{2-amino-6-{{4'-{{8-{{4-{bis{2-hydroxyethyl}amino}-6-{phenylamino}-1,3,5-triaxin-2-yl}amino}-1-hydroxy-3,6-disulfo-2-naphthalenyl]azo]-3,3'-dimethoxy[1,1'-bjhenyl]-4-yl]azo]-5-hydroxy-7-sulfo-1-naphthalenyl]azo]-5-nitro-{9CI} (CA INDEX NAME)

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 2-A CH2-CH2-OH

RN 82382-68-1 CAPLUS
CN Benzoic acid, 2-[[2-amino-5-hydroxy-6-[[4'-[[1-hydroxy-8-[[4-(4-morpholiny])-6-[phenylamino]-1,3,5-triazin-2-yl]amino]-3,6-disulfo-2-naphthalenyl]azo]-3,3'-dimethoxy[[,1'-biphenyl]-4-yl]azo]-7-sulfo-1-naphthalenyl]azo]-5-nitro-(9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

PAGE 1-B

RN 82382-70-5 CAPLUS
CN Benzoic acid,
2-[(2-amino-5-hydroxy-6-[(4'-[(1-hydroxy-8-[(4-(phenylamino)-6-(72-sulfoethyl)amino]-1,3,5-triezin-2-yl)amino]-3,6-disulfo-2-naphthalenyl]azo]-3,3'-dimethoxy(1,1'-biphenyl]-4-yl]azo]-7-sulfo-1-naphthalenyl]azo]-5-nitro- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 82382-69-2 CAPLUS

Senzoic acid, 2-[[2-amino-6-[[4'-[[8-[[4-[(carboxymethyl)amino]-6-(phenylamino)-1,3,5-trlazin-2-yl]amino]-1-hydroxy-3,6-disulfo-2-naphthalenyl]azo]-3,3'-dimethoxy[1,1'-biphenyl]-4-yl]azo]-5-hydroxy-7-sulfo-1-naphthalenyl]azo]-5-nitro- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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PAGE 1-B

NO2

HO2c

N

N

N

NH2

RN 82382-71-6 CAPLUS

CN Benzoic acid, 2-[[6-[[4'-[[8-[[4-[(carboxymethyl)methylamino]-6(phenylamino]-1,3,5-triazin-2-yl)amino]-1-hydroxy-3,6-disul7c-2naphthalenyl1aco]-3,3'-dimethoxy[1,1'-biphenyl]-4-yl]azo]-5-hydroxy-2(methylamino)-7-sulfo-1-naphthalenyl]azo]-5-nitro- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

— CH2- CO2H

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ANSWER 12 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN 1959:26016 CAPLUS 53:26016 53:4750h-i,4751a-g Metalizable azo dyes Durig, Rudoif J. R. Geigy Akt.-Ges. Patent Unavailable CCNT 1
CNT 1
PATENT NO.
                                                  KIND
                                                                   DATE
                                                                                                 APPLICATION NO.
                                                                                                                                                          DATE
 US 2856396 19581014 US
DE 1100845 DE
AZO dyes are produced by coupling hydroxybenzoquinolines with diszotized amines of the structure AN:NENH2, in which A is an aromatic radical of
 iso or heterocyclic series and may also contain an arylazo group as a substituent, and B is a radical of mono and dinuclear,
atic-isocyclic,
possibly substituted, hydrocarbons and in which the azo and amino groups
are in 1,4-or 1,4'-position to each other and in which at least the NH2
group is in ortho position to a metalizable group or substituent which
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be converted to one. The phenols are 2-hydroxy-4-methyl(hydroxysulfobenzo)quinolines, the benzo groups being in 5,6- or 7,8-position, and the coupling taking place in ortho position to the isocyclically bound OH group. These dyes are dark powders, soluble in

and whose salts are olive, green, and blue to gray. The materials are suitable for dyeing cellulose, particularly cotton, the dyes then being fixed with agents giving off Gu. The dyeings are fast to light and washing. Some of the water-soluble complexes may be used as such. Some

the dyes are fast to anti-creasing treatments. Thus, 41.7 parts of the coupled product of diazotized 5-amino-2-hydroxybenzene-1-carboxylic acid (I) and 1-amino-2-methoxy-naphhalene-6-sulfonic acid (II) is diazotized at 15° in the reverse manner and coupled at 0-5° with 2-hydroxy-4-methyl-5,6-(3'-hydroxy-benzo|quinoline-5'-sulfonic acid (III) 32.3, the dye being precipitated with NaCl, filtered off, and washed.

The disazo dye is useful for dyeing cellulose fibers in wet- and light-fast

gray colors. The fastness is improved by aftercoppering. Diazotized 4'-amino-4-(6-sulfonaphtho-1,2,4,5-triazo1-2-yl)stilbene-2,2'-disulfonic acid is coupled in HOAc with II. The product is diazotized in the

reverse

manner and coupled with

2-hydroxy-4-methyl-5,6-(4'-hydroxybenzo)quinoline6'-sulfonic acid (IV). The product is converted to the Cu complex and dyes cotton and cellulose in green shades fast to light. Both shade and light-fastness are only slightly influenced by anti-creasing processes.
Tetracotized o-dlanisidine (V) is coupled with
1-hydroxynaphthalene-3,8-disulfonic acid. The product is diazotized and coupled with IV giving a precipitate which is complexed with Cu giving a dark

powder (VI). This is soluble in water with a blue color, and dyes

cotto on, linen, and regenerated cellulose in lightfast shades which are barely influenced by anti-crease treatment. The dye produced from coupling tetrazotized benzidine, salicylic acid (VII), and II is diazotized and ANSWER 12 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) coupled with III. The trisazo dye renders cotton and regenerated cellulose blue-green shades from an aq. bath. Aftercoppering produces dyeings of excellent wash- and light fastness. The compd. from

diazotized

I and 1-aminonaphthalene-6-sulfonic acid is diazotized and coupled with
1-amino-2,5-dimethoxybenzene. The product is further diazotized and
coupled with III. This material dyes cotton and regenerated cellulose in
blue-gray shades whose light and wash-fastness is increased by
aftercoppering. The dye from diazotized
5-amino-3-sulfo-2-hydroxybenzene1-carboxylic acid and 1-aminonaphthalene-7-sulfonic acid is diazotized
and

coupled with II. This is further diszotized and coupled with III to give a dye which renders cotton blue-green shades which are fast to light and washing when a ferecoppered. Tetrasotized V is partially coupled with the compd. formed by coupling diszotized 2-aminobenzene-1-carboxylic acid and 2-amino-5-naphthol-7-sulfonic acid. The diszo diszo compd. is coupled with III to produce a dye which renders cotton dark navy-blue shades, which when aftercoppered are fast to light. VI 2 in a bath contg. water 3000 and Na2CO3 1 is used to dye 100 parts of cotton at 40-50°. Within 30 min., the bath is raised to 90-5°, Na2SO4 30 is added, and the dyeing continued for 45 min. The goods are then rinsed. 106168-13-2, Benzoic acid, o-[2-amino-6-[4'-(3,7-dihydroxy-1-

methyl-9-sulfobenzo[f]quinolin-8-ylazo]-3,3'-dimethoxy-4-biphenylylazo]-5-hydroxy-7-sulfo-1-naphthylazo]-(preparation of) RN 106168-13-2 CAPLUS

Benzoic acid, o-[2-amino-6-[4'-(3,7-dihydroxy-1-methyl-9-

sulfobenzo[f]quinolin-8-ylazo]-3,3'-dimethoxy-4-biphenylylazo]-5-hydroxy-7sulfo-1-naphthylazo]- (6CI) (CA INDEX NAME)

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L4 ANSMER 13 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1958:119498 CAPLUS
DN 52:119498 CAPLUS
DN 52:119498
TI Copperable polyazo dyes
IN Byland, Hans-Rudolf
PA Saul & Co.
T Patent
LA Unavailable
FAN.CNT I
FAN.CNT I
FAN.CNT I
FATENT NO. KIND DATE APPLICATION
                                                                                                                                                          APPLICATION NO.
                                                                                                                                                                                                                                         DATE
                                                                                                                                                         US
DE
                  US 2835662
DE 1064659
                                                                                                                 19580520
DE 1064659

For diagram(s), see printed CA Issue.

B Copperable dyes of the structure I, in which R is H, an alkyl, cycloalkyl,

aralkyl, or aryl group, Z is a OH or COOH group, E is an enolizable keto group, and in which ring A may be further substituted, are prepared from tetrazotized compds. of the 4,4'-diamino-3,3'-dicarboxybiphenyl (II) family, 1 mole of M, and 1 mole of a compound containing a group C:C(OH). The
                   coupling can take place in any desired order in alkaline media. These
  dves
                  render cotton and regenerated cellulose violet-red shades which are displaced to gray or deep black by after coppering. The materials are fast to light, washing, perspiration, and are distinguished by very good discharge-ability. The dyes also reserve acctate silk. Thus, II 27.2,
                   tetrazotized and treated with the amino azo compound (III) 51.4
 tettazetate and control to the coupling diszotized 2-amino-1-phenol-4-sulfonamide with 2-phenylamino-5-naphthol-7-sulfonic acid (IIIA), Na2CO3 10, and water 900 parts. Then concentrated aqueous Na2CO3 30 parts is added, thus forming
                  diazo
disazo compound The mixture is then treated with a solution of
acetoacetamidobenzene (IV) 17.7 in water 600 parts, stirred, cooled, and
the trisazo compound (V) salted out with NaCl, filtered and dried. V is
                   dark powder, soluble in water giving a violet-red solution which dyes
                dark powder, soluble in water giving a violet-red solution which dyes on and regenerated cellulose black by the 1- or 2-bath coppering process. Similarly, are prepared dyes from (components given; color on cellulose black): II, 2-acetoacetamido-6-naphthalenesulfonic acid, compound from diazotized 2,4-H2M (OZNICGH304) and IIIA; and II, III, IV, and 1-phenyl-3-mathyl-2-pyrazolin-5-one. 10343-19-2, 3,3'-Biphenyldicarboxylic acid, 4-[6-anilino-1-hydroxy-5-[2-hydroxy-5-sulfamoylphenylazo]-3-sulfo-2-naphthylazo]-4'-(3-methyl-5-oxo-1-phenyl-2-pyrazolin-4-ylazo) (dyestuff mixture containing) 103443-19-2 CAPLUS 3,3'-Biphenyldicarboxylic acid, 4-[6-anilino-1-hydroxy-5-(2-hydroxy-5-sulfamoylphenylazo)-3-sulfo-2-naphthylazo]-4'-(3-methyl-5-oxo-1-phenyl-2-pyrazolin-4-ylazo) (GCI) (CA INDEX NAME)
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L4	ANSWER 14 OF 14 CA	PLUS C	OPYRIGHT 200	6 ACS on STN				
AN	1955:67243 CAPLUS							
DN	49:67243							
	49:12849a-c							
TI	Metalizable polyazo	dyes						
PA	J. R. Geigy AG.							
DT	Patent							
LA	Unavailable							
FAN.	CNT 1							
	PATENT NO.		DATE	APPLICATION NO.	DATE			
PI AB	CH 293870		19540104					
AB				id coupling of diazotiz				
				C10H5SO3H, gave II wher				
				-4-hydroxyphenylazo)-2- own in H2O, and reddish				
				fibers brown shades. S				
	describes the prepa	ration.	of a due bu	the same method from I	W155 293,00/			
	2 5 7-14 3-40(4020)	LECTON	UL a uye by	H 37.5, and o-MeOC6NHCO	20.7,			
				owder, violet-red in H2				
				se fibers aftercoppered				
shade	es of	04, 10	ayed cerruro	se libers alcetcobbeted	DIONII			
01.00		Swies	293 869 des	cribes the preparation	hu the same			
meth		0,,100	233,003 403	cribes the preparation	Dy the same			
of a dye from I 28.7, p-AcNHC6H4NHCOCH2Ac 23.4, and 2,6-Hoc10H6SO3H 22.4								
	parts. The dye is	a brown	-black nowde	r, brown in H2O, olive-	hrown in			
				d regenerated cellulose				
				d fastness properties.	IIDCIB			
IT	860507-18-2. Salicyl	ic acid	1. 5-12-amino	-6-15-14-11-(p-aminophe	env11-			
	860507-18-2, Salicylic acid, 5-{2-amino-6-[5-[4-[1-(p-aminophenyl)-3-methyl-5-oxo-2-pyrazolin-4-ylazo]-3-carboxy-phenylcarbamoyl]-2-hydroxy-							
	phenylazol-5-hydrox				, a myatomy			
	(preparation of)	,		,				
RN	860507-18-2 CAPLUS							
CN		2-amino	-6-15-14-11-	(p-aminophenyl)-3-methy	1-5-oxo-2-			
	pyrazolin-4-ylazo]-3-carboxy-phenylcarbamoyl]-2-hydroxy-phenylazo]-5-							
	hydroxy-7-sulfo-1-na							
				•				

L4 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
PAGE 1-B

10/511,534 Page 44

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L5 15 SEA FILE=CAPLUS ABB=ON PLU=ON "EICHHORN JOACHIM"/AU

L6 11 SEA FILE=CAPLUS ABB=ON PLU=ON L5 AND REACTIVE

L7 11 SEA FILE=CAPLUS ABB=ON PLU=ON L6 AND AZO

=> d 1-11 bib abs

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ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN 2005:140365 CAPLUS 142:221171 Dye mixtures of fiber-reactive axo dyes, their preparation and their use Meler, Stefan; Russ, Werner; Eichhorn, Joachim Dystar Textilfarben G.m.n.H. & Co. Deutschland K-G., Germany U.S. Pat. Appl. Publ., 58 pp. CODEN: USXXCO Patent English CMT 1
   AN
DN
TI
   PA
SO
LA Eng.
FAN.CNT 1
PATENT NO.
                                                                                                      DATE
                                                                                                                                          APPLICATION NO.
                                                                                KIND
                                                                                                                                                                                                                   DATE
                 US 2005034253 A1 20050217 US 2004-899163 20040726
DE 10337636 A1 20050217 DE 2003-10337636 20030916
EP 1508596 A1 20050223 EP 2004-18501 20040804
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LI, N, ES, EM, CP, TL, LE, SK, CP, TR, GB, CY, AL, TR, BG, CZ, EE, HU, PL, SK,
CA 2477337
BR 2004003225
2A 2004006382
JP 2005060708
PRAI DE 2003-10337636
OS MARPAT 142:221171
GI
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A
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BR 2004-3225
ZA 2004-6382
JP 2004-236771
                                                                                                      20050216
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                                                                                                      20050524 20050617
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                                                                                                      20050310
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                                                                                                      20030816
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Reactive dye mixts. comprise one or more dyes of general formula I and one or more dyes of the general formula II (where in I and II: D1, D2, D3 = optionally substituted ph, naphthyl group; R0 = H, optionally substituted pyrazinyl group (A) with 2 N atoms in a 1 to 3 position

L7 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

AN	2005:140364 CAPLUS				
DN	142:221089				
TI	Dye mixtures of fib		tive aso dye	s, their	
	preparation and the				
IN	Meier, Stefan; Russ				
PA	Dystar Textilfarben			rmany	
so	U.S. Pat. Appl. Pub	1., 50	pp.		
	CODEN: USXXCO		• •		
DT	Patent				
LA	English				
	CNT 1				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005034252				
		A1		DE 2003-10337637	
	EP 1508598	A1		EP 2004-18502	
	R: AT, BE, CH,	DE, DK	, ES, FR, GE	3, GR, IT, LI, LU, NL,	SE, MC, PT,
	IE, SI, LT,	LV, FI	, RO, MK, CY	, AL, TR, BG, CZ, EE,	HU, PL, SK,
HR					
	CA 2477407	AA	20050216	CA 2004-2477407	20040812
	ZA 2004006381	A	20050613	ZA 2004-6381	20040812
	BR 2004003270	A	20050524		
	JP 2005060707		20050310		
PPAT	DE 2003-10337637		20030816	02 2004-230740	20040010
os	MARPAT 142:221089	^	20030010		
GI	THE 142:221009				
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Disazo dyes based on naphthalene derivs. having a OH group in 1 position, aso groups in the 2 and 5 positions, a sulfo group in the 3 position, and an amino group in the 6 position are mixed with (dis) are dyes having sulfo groups or pyridinone groups and, optionally, \$100 are dyes based on naphthalene derivs. having a OH group in the 1 position, an amino group in the 6 position, an are group in the 5 position, a sulfo group in the 3 position and, optionally, a sulfo group in the 2 position to give compns. for dyeing OH- or amide-containing fibers with good wet- and lightfastness and low ning of

polyamide fibers when used for cotton-polyamide blend textiles. A typical

mixture for printing of cotton fabrics contained 50 parts electrolyte

containing 70% disazo dye I and 50 parts electrolyte powder containing 75% disazo dye II.

ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) relation, optionally substituted triazinyl group (B) with 3 N atoms in a

to 3 to 5 position relation, carbonyl group; R1, R2 = H, C1-4 alkyl, CH2SO3H or its salts; b, f, v = 0, l; T = OH, NH2; when v = 0, T = NH2). The invention also relates to the prepn. of dyes I and II contg. at least one fiber-reactive group and their use for dyeing and printing hydroxyl- and/or carboxamido-contg. fiber material.

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ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN 2003:855992 CAPLUS 139:351757
  AN
DN
TI
                                            Reactive disazo dyes, their production and their use
  IN
PA
SO
                                          Eichhorn, Joachim
                                        Exchanger, Josephs Communication of the Communicati
DT Patent
LA German
FAN.CNT 1
PATENT NO.
                PΙ
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I

x2-n=n

AB The invention relates to aso dyes (I; M = H, alkali metal, 1/2 alkaline earth metal; R, Rl = H, Cl-4-alkyl, sulfomethyl; X1, X2 = optionally substituted aryll, their production, and their use for dyeing or printing fibrous materials containing hydroxy and/or carbonamide groups. I confer scarlet to reddish brown shades which show good color strength and fastness characteristics. In an example, 2,4,6-trifluoropyrimidine was condensed (1:1) with 2,4-diaminobenneesulfonic acid to provide a diazo component which was coupled with 4-hydroxy-7-(sulfomethylamino)-2-naphthalenesulfonic acid to give a reddish orange monozo dye. This dye was coupled with diazotized 4-(2-sulfatoethylsulfonyl)smiline to provide a

10/511,534 Page 46

ANSWER 4 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN 2003:777903 CAPLUS 139:278000 Mixtures of reactive aso dyes, their production and

TI Mixtures of reactive aso dyes, their production and their use

IN Eichhorn, Joachim
PA Dystar Textilifarben GmbH & Co. Deutschland KG, Germany
SO PCT Int. Appl., 67 pp.
CODEN: PIXXD2

DT Patent
LA German
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO.

DATE

(Continued)

ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued disazo reactive dye (Amax 496 nm), scarlet red on cotton.

NT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT (Continued) L7 RE.CNT 3

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CNT 1
PATENT NO.

KIND DATE

APPLICATION NO.

DATE

APPLICATION NO.

DATE

20031092

W0 2003-EP2793

20030318

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CG, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, CG, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LW, MA, MP, MG, MK, MM, MW, KM, MZ, NO, NZ, OM, PL, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VM, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, ND, RU, TJ, TH, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BG, CF, CG, CI, CH, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 1021779

Al 20031002

DE 2002-10217479

Al 20031002

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, IL, LU, NL, SE, MC, FT, EE, SI, LT, LY, FI, RO, MK, CY, AL, TR, BE, BC, CE, EE, HU, SK

BR 2003008754

A 20050111

BR 2003-9754

DE 2002-102117479

A 200200122

DE 2002-102117479

A 20020012

DE 2002-102117479

A 20020013

DE 2002-102117479

A 20020012

DE 2002-102117479

DE 2002-10211749

DE 2002-1021749

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JP 2005520910 T2 20050714 JP 2003-578479 20030318
US 2005223508 Al 20051013 US 2004-508077 20041105
PRAI DE 2002-10212772 A 20020322
DE 2002-10217479 A 20020419
WO 2003-EP2793 W 20030318

SMARPAT 139:278000
AB The invention relates to mixts. containing one or more l-amino-8-hydroxynaphthalenedisulfonic acid-based disazo dyes, 1 or more l-hydroxyn-7-aminonaphthalenessulfonic acid-monazo dyes, and optionally other axo dyes. The reactive dye mixts., which can be prepared chemical and/or by phys. mixing, provide fast black shades on substrates such as cotton. In an example, 4-(2-sulfatecthylsulfonyl) aniline was disacotized and coupled with a mixture of 4-amino-5-hydroxynaphthalene-2-sulfonic acid and the product mixture was coupled with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           diazotized 4-amino-N-[3-(2-sulfatoethylsulfonyl)phenyl]benzamide to provide a black mixture of reactive are dyes.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
                                                    ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN 2003:777902 CAPLUS 139:293419 Mixtures of reactive aso dyes, their production and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         L7 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
       AN
DN
TI
                                                           their use
                                                      their use
Michhorn, Joachim: Russ, Werner; Meier, Stefan; Mrotzeck, Uwe
Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
PCT Int. Appl., 220 pp.
CODEN: PIXKD2
       PA
SO
       DT
LA
                                                         Patent
                                                           German
       FAN.CNT 1
                                       | CATT | 
                                                      PATENT NO.
                                                                                                                                                                                                                                                           KIND DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DATE
DE 2003-10309406 A 20030305
W0 2003-EP2836 W 20030318
OS MARPAT 139:293419
AB The invention relates to mixts. of one or more 1-amino-8-hydroxynaphthalenedisulfonic acid-based disazo dyes, one or more 6-amino-3-sulfo-1-naphthol-based disazo dyes, and optionally 1 or more other naphthalene group-containing ase dyes. The reactive dye mixts., which can pre prepared chemical or by phys. blending, provide fast
black shades on cotton. In an example, 4-(2-sulfatoethylsulfonyl)aniline was diszotized and coupled with a mixture of
1-amino-8-hydroxynaphthalene-2-sulfonic acid to give a black mixture of hydroxynaphthalene-2-sulfonic acid of give a black mixture of reactive are dyes.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
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ANSWER 6 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN 2003:434181 CAPLUS 139:8127
Mixtures of reactive disazo dyes, their production and their use Richhorn, Joachim; Mrotzeck, Uwe: Russ, Werner Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany Eur. Pat. Appl., 32 pp. CODEN: EPXXDW L7 AN DN TI IN PA SO DT Patent LA German FAN.CNT 1 PATENT NO.

KIND DATE APPLICATION NO. DATE

and Vinyi sulting of the dyes or by direct production from multiple diazo and coupling components. The mixts, provide fast greenish navy blue shades

cotton fabrics. In an example, a mixture of 4-{2-sulfatoethylsulfonyl}anlline and 2,5-dimethoxy-4-{2-sulfatoethylsulfonyl}anlline was diazotized and coupled with 8-amino-1-naphthol-3,6-disulfonic acid followed with a second coupling with diazotized 2-methoxy-5-methyl-4-{2-sulfatoethylsulfonyl}aniline to give a mixture of 2 disazo reactive dyes.

ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

The invention relates to reactive dye mixts. containing at least one naphthalene-based disazo reactive dye (I: M= H, alkali metal; R1, R1 = aryl with vinyl sulfone reactive group), at least one benzene-based disazo reactive dye (II; M = H, alkali metal; R3, R4 = 1, or at least one other naphthalene-based disazo reactive dye (III; M = H, alkali metal; R5, R6, R7 = H, C1-4-alkyl, C1-4-alkoxy, carboxy, halogen, C1-4-alkylcarbonylamino, benzoylamino, ureido; R8 = heterocyclic fiber-reactive group; a, b, c = 0-1; m, n = 0-2; p = 0-3). The dye mixts. may be produced by chemical or phys. means to ide

deg good dyeing strengths on substrates such as cotton. An example was given which was based on a navy blue disazo naphthalene-based vinyl sulfone reactive dye and an orange benzene-based disazo vinyl sulfone reactive dye; deep black dyeings were obtained.

WI 5 THERE ARE S CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7	ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN									
AN	2002:946380 CAPLUS									
DN	130:25786									
TI	Mixtures of reactive disazo dyes, their production and their use									
IN	Richhorn, Joachim; Russ, Werner									
PA	Dystar Textilfarben G.m.b.H. & Co. Deutschland K.~G., Germany									
so	PCT Int. Appl., 71 pp. CODEN: PIXXD2									
DT	Patent									
LA	German									
FAN.	CNT 1									
	PATENT NO.	KIND DATE	APPLICATION NO.	DATE						
ΡĪ	WO 2002098989	A1 20021212	WO 2002-EP5823							
	W: AE, AG, AL,		BA, BB, BG, BR, BY, BZ							
			DZ, EC, EE, ES, FI, GB							
			JP, KE, KG, KP, KR, KZ							
			MK, MN, MW, MX, MZ, NO							
	PL, PT, RO,	RU, SD, SE, SG,	SI, SK, SL, TJ, TM, TN	. TR. TT. TZ.						
	UA, UG, US,	UZ, VN, YU, ZA,	ZM, ZW, AM, AZ, BY, KG	, KZ, MD, RU,						
	TJ, TM									
			SL, SZ, TZ, UG, ZM, ZW							
			GR, IE, IT, LU, MC, NL							
			GN, GQ, GW, ML, MR, NE							
			DE 2001-10127062							
			CA 2002-2449126							
	EP 1397438		EP 2002-754591							
			GB, GR, IT, LI, LU, NL	, SE, MC, PT,						
		LV, FI, RO, MK,								
	BR 2002009565	A 20040330	BR 2002-9565	20020528						
	CN 1513038	A 20040714	CN 2002-810949	20020528						
	JP 2004532342	T2 20041021	JP 2003-502101	20020528						
	US 2004148714	A1 20040805	US 2003-478137	20031120						
PRAI	DE 2001-10127062	A 20010602								
		W 20020528								
os	MARPAT 138:25786									
GI										

L7 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:946379 CAPLUS
DN 138:25785
I Black dye mixtures of reactive are dyes, their
production and their use
N Eichhorn, Joachim: Pedemonte, Ronald
PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
SO PCT Int. Appl., 58 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO. PATENT NO. KIND APPLICATION NO. DATE DATE 20021212 WO 2002-EP5822
20030220
AT, AU, AZ, BA, BB, BG, BR, BY, DE, DK, DM, DZ, EC, EE, ES, FI, IL, IN, IS, JP, KE, KG, KP, KR, MA, MD, MG, MK, NN, MM, MX, MZ, SD, SE, SG, SI, SK, SI, TJ, TM, YU, ZA, ZM, ZW, AM, AZ, BY, KG, WO 2002098988
WO 2002098988
W: AE, AG,
CO, CR,
GM, HR,
LS, LT,
PL, PT,
UA, UG, A2 A3 AM, CZ, ID, LV, RU, VN, 20020528 CH, CN, GE, GH, LK, LR, OM, PH, TT, TZ, RU, TJ, DA, UG, US, VN,

RW: GH, GM, KE, LS,
CY, DE, DK, ES,
BF, BJ, CF, CG,
CA 2449113 A2
R: AT, BE, CH, DE,
IE, SI, LT, LV,
BR 200210027 A
CN 1513037 A7
P2 2004526473 T2
US 2003140432 A1
US 5946006 B2
US 2001-295193P P
WO 2002-295582 W
MARPAT 138:25785 MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, CI, CM, GA, GW, ML, MR, NE, SN, TD, TG 20021212 Cx 2002-2449113 20020528 Cx 20040317 EP 2002-750983 20020528 Cx, Es, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, FI, RO, MK, CY, AL, TR 20040413 B2002-10027 20020528 Cx 20040714 CN 2002-810943 20020528 Cx 20040714 CN 2002-810943 20020528 20030731 US 2002-157293 20020528 20050520 20010601 20020528 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) sulfone reactive group) and at least one monoazo reactive dye (II: M = H, alkali metal: R3 = org. or reactive group: n = 0, 1), their prodn. by phys. or chem. means, and their use on substrates such as cotton to provide good dyeing strengths. Examples were given which incorporated an orange-dyeing monoazo dye and a navy-dyeing disazo dye for cotton.

L7	ANSWER 9 OF 11 CAR	LUS COPYRIGHT 2	006 ACS on STN							
AN	2002:946377 CAPLUS									
DN	138:25784									
TI	Mixtures of reactive aso dyes, their production and									
	their use									
IN	Eichhorn, Joachim									
PA			Deutschland KG., Germ	aany						
so	PCT Int. Appl., 47 pp. CODEN: PIXXD2									
DT	Patent									
LA	German									
FAN.	CNT 1									
	PATENT NO.		APPLICATION NO.	DATE						
PI			WO 2002-EP5824	20020528						
	WO 2002098986	A3 20030313								
	W: AE, AG, AL,	AM, AT, AU, AZ,	BA, BB, BG, BR, BY, B2	, CA, CH, CN,						
	CO, CR, CU,	CZ, DE, DK, DM,	DZ, EC, EE, ES, FI, GE	, GD, GE, GH,						
			JP, KE, KG, KP, KR, KZ							
			MK, MN, MW, MX, MZ, NO							
			SI, SK, SL, TJ, TM, TN	I, TR, TT, TZ,						
		UZ, VN, YU, ZA,								
			SL, SZ, TZ, UG, ZM, ZW							
			GR, IE, IT, LU, MC, NI							
			GN, GQ, GW, ML, MR, NE							
	DE 10127061	A1 20021212	DE 2001-10127061 CA 2002-2449125	20010602						
		AA 20021212	CA 2002-2449125	20020528						
			EP 2002-754592	20020528						
	EP 1397439	B1 20051116								
			GB, GR, IT, LI, LU, NI	., SE, MC, PT,						
		LV, FI, RO, MK,								
	BR 2002009569		BR 2002-9569	20020528						
	CN 1513036	A 20040714	CN 2002-810941	20020528						
	JP 2004527647	T2 20040909	JP 2003-502098 AT 2002-754592 TW 2002-91111583 US 2003-478124	2002052B						
	AT 310052	E 20051215	AT 2002-754592	20020528						
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	US 6962611	B2 20051108								
PRAI	DE 2001-10127061	A 20010602								
	WO 2002-EP5824	W 20020528								
os	MARPAT 138:25784									
GI										

L7 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

$$(MO_3S)_n$$
 X
 $N=NR^3$

AB The invention relates to reactive dye mixts. containing at least one disaro reactive dye (I; M = H, alkali metal; Rl, R2 = aryl with vinyl sulfone reactive group) and at least one monoazo reactive dye (II; R3 = aryl with vinyl sulfone reactive group; X = hydroxy, optionally substituted amino; n = 1, 2), their production

uction
by phys. or chemical means, and their use on substrates such as cotton to
provide good dyeing strengths. Examples were given which incorporated a
navy blue-dyeing disazo dye and an orange monoazo dye which together
provided a fast black shade.

L7	ANSWER 10 OF 11 CA	D1 110 CO	PYRIGHT 2	006 8	~~ ~~	em.			
AN	2000:755279 CAPLUS		FIRIGHT 2	000 A	CS On	211			
DN	133:322967								
TI	Reactive axo dye mix								
* *	content, their prod				n row	Batr			
IN	Pedemonte, Ronald;				_ ~-		V		
114	Eichhorn, Joachim								ın;
PA	Dystar Textilfarben	G.m.b.H	. und Co.	Deut:	schlan	d K	G., Ger	many	
50	Eur. Pat. Appl., 15 CODEN: EPXXDW	pp.						-	
DT	Patent								
LA	German								
FAN.	CNT 1								
	PATENT NO.	KIND	DATE	AP	PLICAT	ION N	ю.	DAT	E
PI	EP 1046679	A2	20001025	EP	2000-	10786	2	200	00412
	EP 1046679	A3	20010919						
	EP 1046679	B1	20030702						
	R: AT, BE, CH,	DE, DK,	ES, FR,	GB, GI	R, IT,	LI,	LU, NL,	SE, M	C, PT,
	IE, SI, LT,	LV, FI,	RO						
	DE 19918160	A1	20001026	DE	1999-	19918	160	199	90422
	AT 244281	E	20030715	AT	2000-	10786	2	200	00412
	PT 1046679	T	20030930	PT	2000-	10786	2	200	00412
	ES 2200748	T3	20040316	ES	2000-	10786	2	200	00412
	US 6368362		20020409	US	2000-	55342	9	200	00419
	TR 200001078	A2	20001121	TR	2000-	20000	1078	200	00420
	TW 538100	В	20030621						00420
	JP 2000345066		20001212	JP	2000-	12144	8	200	00421
PRAI	DE 1999-19918160	A	19990422						
os	MARPAT 133:322967								
GI									

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Mixts. of at least 2 of the 3 reactive aso dyes represented by I (RI = Me, amino; R2 = H, CI; X1 = diazo component based on benzene or naphthalene with ≥1 sulfo group), II (M = H, alkali metal; X2 = diazo component based on vinyl sulfone-containing or

-generating benzene derivative; Y = F, Cl), and III (M = H, alkali metal; X3, X4 =

diazo

Component based on vinyl sulfone-containing or -generating benzene
derivative) are

effective for dyeing of cotton in baths needing only 1-10 g salt
electrolyte. In an example, a mixture of I (R1 = Me; R2 = C1; X1 =
6,8-disulfo-2-naphthyl) 0.66, II (M = H; X2 = 4-(2sulfatoethylsulfonyl)phenyl; Y = F] 0.66, and III (M = H; X3 =
4-(2-sulfatoethylsulfonyl)phenyl with p-attachment; X4 =
4-(2-sulfatoethylsulfonyl)phenyl 0.66 part in 1 L water containing 8
parts

parts Na2CO3 dyed cotton in fast brown shades.

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LO/511,5

L7 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2000:755278 CAPLUS
DN 133:322999
T1 Pasettive water-soluble disazo dyes with arylcarboxamide-
containing diazo components, their production and their use
I Etchhorn, Josephim
PA Dystar Textilfarben G.m.b.H. und Co. Deutschland K.-G., Germany
SO Eur. Pat. Appl., 24 pp.
CODEN: EPRXDW
DT Patent
LA German
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO. DATE
PATENT NO. KIND DATE APPLICATION NO. DATE

PI EP 1046677 A1 20001025 EP 2000-107861 20000412
EP 1046677 B1 20001025
EP 1046677 B1 20001025
EP 1046677 B1 20001026 DE 1999-19918159 19990422
AT 245680 E 20030815 AT 2000-107861 20000412
PT 1046677 T 20031031 PT 2000-107861 20000412
PT 10493925 B 20000121 TT 2000-20001077 20000420
PT N 83925 B 20020421 TW 2000-89107477 20000420
PT N 1999-19910159 A 19990422

OS MARPAT 133:322999
GI
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AB Disazo dyes (I; M = H, alkali metal; X1, X2 = diazo component containing vinyl sulfone or vinyl sulfone-forming group; one or both of X1 and X2 may contain a carboxamide group) are obtained by coupling of X1NN2 and X2NH2 with H acid or K acid. I are suitable as reactive navy blue dyes for cotton. Thus, 4-amino-N-[4-(2-hydroxyethylsulfonyl)phenyl)benzam ide was sulfated and diazotized and then coupled with 4-(2-sulfatoethylsulfonyl)aniline-H acid to give a navy blue disazo dye, fast on cotton.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log y COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	109.37	276.52
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-18.75	-18.75

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